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NEWS FROM THE UNIVERSITY OF ADELAIDE

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Unique course is vital in global economy

THE UNIVERSITY OF ADELAIDE has teamed with the University of Texas to launch a "global" program in Science and Technology Commercialisation that links students with other business students, practitioners and industry experts around the world.

The 12-month Professional Certificate in Science and Technology Commercialisation started on 27 April. Using video conference links with overseas universities and guest lectures from experts in the field the course gives experienced professionals the opportunity to develop expertise in defining and directing high-technology commercialisation.

The students, who are likely to be mid career professionals in public and private research and development organisations, will have the chance to work with overseas students to complete commercialisation and technology projects using video conference link-ups.

Professor Reg Coutts, Director of the Centre for Telecommunications and Information Networking (CTIN), said the course is unique in introducing students to one of the few courses in the world that deals with science and technology commercialisation at such a broad and pragmatic level.

"The University of Adelaide is fortunate to be teaching the course jointly with the University of Texas, which has an international reputation for expertise in science and technology commercialisation," Professor Coutts said.

He said the University of Adelaide would market the innovative course in the Asia-Pacific region, with possible expansion into the South-East Asian market through Singapore in 2001.

"The program has the potential to appeal to an enormous international market—for instance, there has already been interest from Japan and Singapore," he said.

The initiative for the establishment of

the course at the University of Adelaide came from Mr Ian Creagh, Director of the Division of Student and Staff Services, and Michael Armitage, the State Minister for Administrative Services, who visited the University of Texas in Austin in 1998 as members of a delegation from South Australia.

Dr Adrian Graves, the General Manager of New Business Development, said the course would also provide students with commercialisation skills that would be valuable to the Australian community.

"This is a unique and relevant course that will address the practical issues necessary for science and technology commercialisation and provide skills which are currently lacking in Australia but are vital for successful competition in the global economy," he said.

The Professional Certificate is a pilot program for a Master of Science (Science and Technology Commercialis-

ation) degree to start in 2000, which will include prominent Australian business leaders as guest speakers.

A Board of Studies that includes academic representatives from a range of faculties, departments and centres across the University of Adelaide, chaired by Professor Coutts, is overseeing the interdisciplinary course.

The full Science and Technology Commercialisation program is currently taught through Austin and Washington in the United States, in partnership with institutions in Mexico and Portugal.

Dr Barbara Fossum and Dr Vicky Gordon Martin from the University of Texas were guest lecturers for the first week of the course.

The University of Adelaide's Vice-Chancellor, Professor Mary O'Kane, launched the professional certificate last week.

—James Gruber

Library hits 2,000,000

THE BIGGEST LIBRARY in South Australia just got bigger.

The University of Adelaide's Barr Smith Library is celebrating the acquisition of its two millionth item.

Two million books, journals, volumes and other items is an important milestone for the library, particularly as it coincides with the University's 125th anniversary year.

The Barr Smith Library originally reached the half million mark in 1969, with the acquisition of a facsimile copy of the Gutenberg Bible. In 1979, the one millionth item was acquired—a first edition of Galileo's *Discorsi e Dimostrazioni Matematiche* produced in 1638.

The identity of the two millionth item is yet to be revealed.

University Librarian Mr Ray Choate said the acquisition of the two millionth item should be a moment of pride for library staff and the University community as a whole.

"The two millionth item is a major achievement. It is a physical representation of the efforts of a number of people who have built up this library's collection into something both large and impressive over the last 125 years," Mr Choate said.

"This university has tried very hard to maintain a research-level library

across a very wide range of disciplines. To try to maintain the collection over that range of disciplines is very challenging.

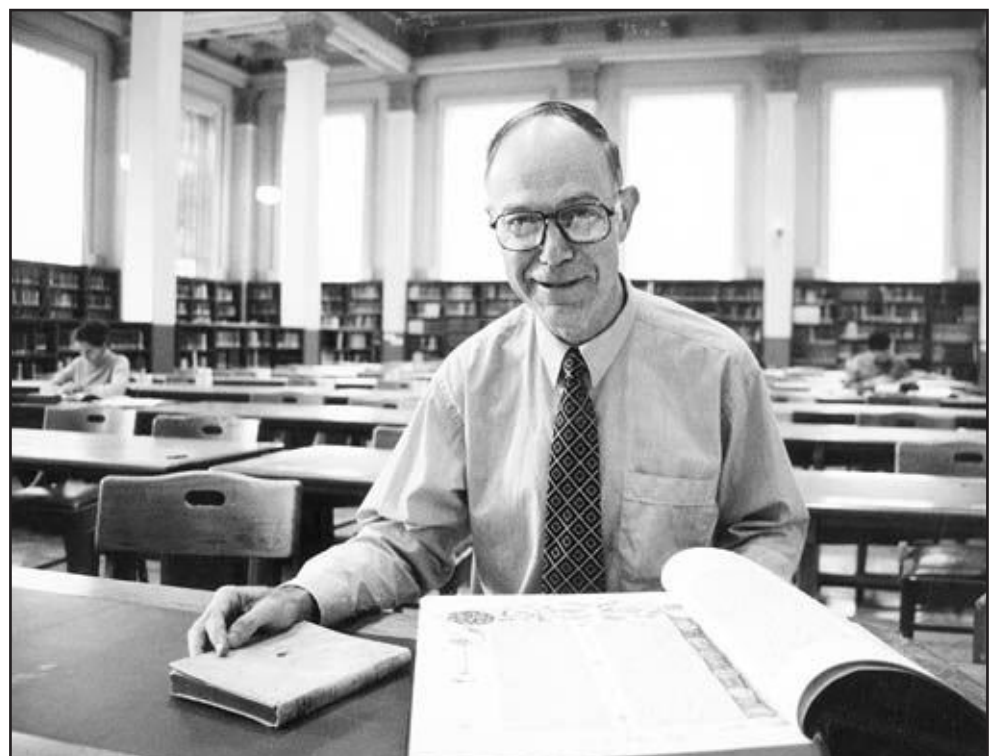
"We've got some very strong and interesting collections—the German collection must be one of the best in the southern hemisphere by now; there's a lot of depth in the sciences, particularly in the biological sciences; and thanks to huge endowments, our 19th century and British Studies collections are also very strong.

"I see the two millionth item as continuing to build on the breadth and depth of the University of Adelaide's collection, which is known Australia-wide," he said.

Special Collections Librarian Mrs Susan Woodburn said the library's collection had been supported in many ways over the years by staff and members of the community.

"The strength of our collections is not only due to people donating money to the library, but from people who have an association with the university donating their personal collections of books and journals. Many people have in fact made very generous donations and have contributed significantly to the library's collection," she said.

As part of its celebrations, the Barr Smith Library is now asking for donations. Money donated will be



University Librarian Ray Choate with the half millionth and one millionth items—the facsimile copy of the Gutenberg Bible, and Galileo's *Discorsi e Dimostrazioni Matematiche*. Photo: David Ellis

used to further build on the library's collection, maintain its existing works and facilities, and help to preserve rare items through digitisation. People can also sponsor one of the chairs in the library's most grand facility, the Reading Room. Each chair sponsored will carry a plaque bearing the name of its benefactor.

"There are people who have used this library as a resource during their days as students, then later as staff members or members of the community. And it's pleasing to see that some of these people who value the library's collection are willing to give something back to maintain or build on it," Mr Choate said.

"We are the largest library in South Australia, and that's very important to

us, because many scholars or academics use this library either directly through coming here or indirectly through inter-library loans. So it serves not only the University of Adelaide but the South Australian community.

"We have overseas visitors who come to the library who compliment us on having a very good research library—far better than they had expected to find here in Adelaide. It's an achievement for the whole university to see the Barr Smith Library get to this level, and hopefully we can continue to build on the quality of our collection."

Donations to the Barr Smith Library can be made by calling (08) 8303 4064.

—David Ellis



COMMENTARY

INSECT AND HERBICIDE RESISTANT TRANSGENIC CROPS: BOON OR BANE FOR THE ENVIRONMENT AND HEALTH?

Genetically modified foods have been prominently discussed in the media over the last few months, including at a "Consensus Conference" in Canberra on 10-11 March. As a speaker at the Conference, I was reminded of the range of misconceptions about the potential risks of transgenic crops for the environment and the consumer.

The only transgenic crop commercially grown in Australia is insect resistant cotton, which uses genes isolated from a common bacterium, *Bacillus thuringiensis* (Bt), to produce proteins that protect the crop from insect attack. Bt has been used in sprays for more than 40 years, but due to its poor persistence, it still accounts for less than 1% of the total insecticide market. When produced inside the plant, the protein is protected and the effectiveness of Bt is much greater. The potential benefits from Bt cotton are enormous. Historically, almost half of the insecticide used in agriculture is applied to cotton, with roughly half of that used against the caterpillars that Bt cotton controls. Where grown in the USA, Bt cotton reduces insecticide use by 70-90%.

In short, Bt cotton alone has the potential to wipe out at least 25% of the world's agricultural insecticide use, and probably an even greater proportion of its risks. I have worked on cotton insect pest

management since 1975, and have never seen a more promising approach for long term reductions in pesticide use.

Further, there is no risk to the consumer. A key point about many genetically engineered crops is that the foods they produce are not genetically engineered. In the case of cotton, the foodstuff is cottonseed oil, and like most oils and sugars, no detectable protein or DNA remains after processing. That is, sugars and oils produced from insect (or herbicide) resistant crops are the same as from standard crops.

Another even more controversial class of genetically engineered crops are those resistant to herbicides. The use of herbicides is sufficiently vexing in its own right, with much of the public believing that there are alternatives that can be used in broad scale agriculture. There is an alternative, cultivation, but its costs to the environment from soil erosion have encouraged the use of no-till or minimum till practices that rely on herbicides for weed management.

One herbicide tolerant crop, triazine tolerant canola, will be planted this year on more than a million hectares of southern Australia, but has attracted little public attention. Why not? The resistance was transferred to canola through classical breeding

by
Associate Professor Rick Roush
Applied & Molecular Ecology

and not by molecular means. Nonetheless, the use of this canola has produced a

major shift in cropping in southern Australia, essentially because the triazine tolerance allows superior weed control, so good in fact that it overcomes a 20% yield penalty inherent in the resistance.

Other herbicide resistant canolas are in development, including one more from classical breeding and two others that are transgenic. Probably the most controversial is canola resistant to glyphosate, which is more widely known by one brand name, "Round-up".

Is classically bred safer than genetically engineered? Just for comparison, the main herbicide used on triazine tolerant canola is atrazine at 1-2 kilograms active ingredient per hectare. Atrazine has a history of ground and surface water contamination, especially in North America. In contrast, glyphosate would probably be used at 1.0 kg/ha on the "Round-up Ready" canola. Rarely cited as an environmental contaminant, the US National Academy of Sciences in 1987 (Regulating Pesticides in Food: The Delaney Paradox) rated glyphosate as among the least risky of all pesticides to human health.

As with canola, the use of some

kinds of herbicide tolerant crops could encourage the replacement of persistent and potentially risky herbicides with less persistent and relatively safe ones like glyphosate. As with cotton, the main food product from canola, its oil, is not genetically modified, and therefore is not in itself any threat to the consumer.

I often hear, as I did at the Consensus Conference, that consumers never asked for genetically engineered crops and stand to gain little from them. However, consumers have consistently demanded a reduction in the health and environmental risks of agriculture. At least some transgenic crops answer that demand. More importantly, the risks of pesticide exposure are far greater to farm workers than to the general public. Before we fret too much about oils and sugars that are not genetically modified no matter what the crop variety, we should consider the lives of those who live in rural communities. These people truly bear the principal burdens for soil conservation and of health risks from pesticide use. We need to think carefully before unduly restricting the adoption of technologies (such as through excessive food labeling requirements) that make rural life safer, especially in the absence of any health risks.

Celebrating
125 years

FROM NEAR AND FAR

Dr Cheong Choong Kong is Deputy Chairman and CEO of Singapore Airlines.

Born in Malaysia, Dr Cheong came to the University of Adelaide as a Colombo Plan Scholar and graduated with First Class Honours in Mathematics (Bachelor of Science) in 1963. He then took his PhD in Mathematics at ANU in Canberra.

Dr Cheong taught Mathematics at the University of Malaya and was an Associate Professor when he joined Singapore Airlines in 1974.

He has served as chairman for some of the most senior organisations in Singapore, including business, media, and educational institutions.

Dr Cheong was presented with the Distinguished Alumni Award during his visit to the University of Adelaide in March.

I remember very fondly my time spent at the University of Adelaide.

Adelaide has always been a very beautiful city, very quiet—an excellent city for students because of its size and relatively serene nature. As an international student studying overseas, I found Adelaide very conducive to learning and understanding the Australian culture, as well as giving me the chance to gain other life experiences.

In some ways the University has not changed very much at all over those years. In other ways there have been great changes, particularly in the number of international students coming to Australia to study.

I see that the University is very accepting of international students and it provides them with a good quality education—as good as any Australian university, and in certain research areas, as far as I can see, even better than some other institutions.

The city of Adelaide also seems to have changed very little over that time, especially when you compare it with other cities in Australia and around the world. This is not necessarily a bad thing, although I do think the city needs to grow and develop further to realise its full potential.

I value highly my education at the University of Adelaide, and also my education at ANU, but I think the most important thing about coming to Australia to study was the wider experience gained.

Studying in another country, living in a city very different to my own—the education did not stop in the lecture rooms, it continued well beyond the University's gates.

In some ways I think this has been



Dr Cheong Choong Kong pictured with the new Chair of the Alumni Association, the Hon. Greg Cramer, during Dr Cheong's recent visit to Adelaide. Photo: David Ellis.

more important than the study itself.

Now that I have moved away from academia and into other areas, I find that the broader education I received in Australia helped me to grow and expand my horizons.

Although I no longer teach or research mathematics, there are

lessons I have learned from my years as a student and an academic which have helped me approach my later positions with some degree of confidence.

Because I was a student under the Colombo Plan, my tuition and living expenses were paid for by the people of Australia. For that I am extremely grateful.

Beijing visitors explore links

AT THE INVITATION of the Vice-Chancellor, Professor Mary O'Kane, two delegates from Beijing Normal University (BNU) last month visited the University of Adelaide.

BNU is one of the key universities in China and is among the top ranked institutions in Beijing.

The University of Adelaide signed a Memorandum of Understanding with BNU late last year. This arose out of negotiations undertaken by Professor Andrew Watson from the University's Centre for Asian Studies and was supported by the Faculty of Humanities & Social Sciences. In addition, a senior mathematical researcher from BNU undertook joint work in Adelaide with Professor Gavin Brown some years ago.

The President of BNU, Professor Lu Shan Zhen, and Professor Wang Yanhua met and had lunch with the Vice-Chancellor. They also met with the Deputy Vice-Chancellor (Research), Professor Ross Milbourne, the Deputy Vice-Chancellor (Education), Professor Penny Boumelha, and the Director of International Programs, Mr Dennis Murray.

Mathematical & Computer Sciences, Engineering, ACUE,



From left: The Vice-Chancellor, Professor Wang Yanhua and Professor Lu Shan Zhen.
Photo: David Ellis

GISCA, Thebarton Campus and the Centre for Asian Studies also played host to the visitors during the day.

Professor Wang expressed interest in collaborating with the University's Integrated Bridging Program to develop a curriculum for English language

programs, which she coordinates at BNU.

Professor O'Kane is expected to visit China later this year and will reciprocate with a visit to BNU to further consolidate the ties established between the two universities.

—Cathy Ogier

University a 'life-enriching' experience

AILEEN TREAGUS is not your average high-achieving Arts student.

When Mrs Treagus graduated with a BA at the recent commemoration ceremonies, it was just over 52 years since she first enrolled in Arts at the University of Adelaide.

She studied arts and completed teacher training in 1947/48, before moving to the country with her husband, also a teacher.

She supplemented the education that is having children with more formal studies, including an Associate Diploma in Theology before being drawn back to the University in 1995 to complete her BA part-time, thanks in large part to the encouragement of her daughter Mandy Treagus, an English lecturer at the University of Adelaide.

Aileen and Mandy were part of a strong family theme at this year's Autumn commemorations. Mandy saw her mother receive her BA then, on the same day, was awarded the EW Benham Prize for English Literature for her PhD thesis on colonial women's fiction.

Aileen Treagus has been an outstanding student. She has been offered the chance to study Honours by the Departments of English and History and is considering returning next year. She is also a member of the Golden Key National Honours Society, open only to the top 15 per cent of students.

She says her feeling on graduation



Mandy Treagus and her mother Aileen: University a 'life-enriching' experience.
Photo: David Washington

was "absolute delight".

"I thoroughly enjoyed my years at Uni," she says. "I met so many interesting people of all ages and was really challenged by all I studied. The staff were wonderful, very professional and encouraging and the lectures were absorbing. They really were very supportive."

Mrs Treagus is involved in the Seaford Aboriginal Reconciliation Group, so she decided to major in Aboriginal history, as well as English literature.

"It was quite different to the

original experience (of University)," she says.

"For a start I had to learn to use the computer. I really enjoyed that, and it enabled me to keep up with my nine grandchildren."

She says everyone asks her how she will "use" the degree.

"I'll use it in living," she responds. "It's enriched my life."

—David Washington

Turn to page 7 for a special graduation photo spread.



What all great universities want

Perhaps it's a sign of globalisation, but there seem to be more opportunities than ever for university Vice-Chancellors and Presidents to meet. Often, I find, the issues with which we grapple are remarkably similar.

This was certainly the case when I attended a meeting in Hong Kong last month of the Vice-Chancellors and Presidents Forum on Global Tertiary Education and Development. The meeting included members of the Group of Eight from Australia, their equivalents from the UK (the Russell Group), Canada (Canadian Ivy), three Hong Kong universities and top universities from China and Taiwan.

All of these universities were wrestling with similar issues. Most strikingly, the Presidents and Vice-Chancellors from the UK, Canada and Australia all faced shrinking public funding and were attempting to raise income from a more diverse range of sources.

It's a familiar theme, however it continues to have profound implications for the way that universities operate. It's a theme which will overlay the next round of Enterprise Bargaining.

By now, all staff should have received a letter from me outlining the University's approach to Enterprise Bargaining. We enter the process with a healthy sense of reality. By now, I think we all realise that—at least in the short-term—the Commonwealth Government won't be raising funding for universities, nor will the Government provide any significant supplementation for salary increases. We will continue to make our arguments for increased public investment.

I want the best for the staff of this University. I want internationally competitive salaries and excellent working conditions and infrastructure. I don't want to pay for salary increases with measures which will reduce the quality of education and research at the University. Neither do I want to cut staff numbers, which will only add to the too-heavy workload carried by staff.

A solution, that I want to explore, is increasing salaries on the basis of increases to University income. There are many complex issues to explore. As I say in my letter, this approach means that, at any time, the division of activity of academic staff between teaching, grant-funded and contract research, professional activities, consulting projects, and administration may vary from the pattern to which we have been accustomed. This is a significant change to the way we regard the role of academic staff and many general staff.

During negotiations we will discuss a salary offer, but only linked with the achievement of revenue targets. I don't believe any other options are sustainable or desirable.

We can and will continue to fight the short-sightedness of our governments, but we cannot risk the University's future by denying reality. In the end, I believe we can negotiate a realistic agreement which can improve salaries and conditions for all staff.

MARY O'KANE



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Trials of sterilisation device a world first

WOMEN around the globe may ultimately reap significant benefits following the success of a series of world-first clinical trials of a new permanent form of contraception.

Professor John Kerin, Head of Clinical Services of the University of Adelaide's Reproductive Medicine Unit, Queen Elizabeth Hospital, and a Senior Visiting Medical Specialist at Ashford Community Hospital, is the first physician in the world to trial the new device, which could potentially revolutionise female sterilisation practices.

Professor Kerin is continuing to trial the device at both hospitals.

Known as STOP, the device is a metal coil that can be inserted into the natural opening of the fallopian tubes using a small telescope called a hysteroscope.

The simple, yet intricately designed device is made of non-toxic materials

and was developed by Conceptus Inc., a biomedical company in California with which Professor Kerin has been working closely for several years.

The STOP device is intended to alter the normal architecture and function of the fallopian tube to prevent pregnancy.

The major advantages of STOP are that it does not require a general anaesthetic or any surgical incision, and it can be performed as a minor day procedure.

According to Professor Kerin, on a global scale, STOP may be one of the most important clinical research trials ever undertaken with regards to female sterilisation.

"In contrast, conventional methods of 'cut and tie' and clip sterilisation require a general anaesthetic, surgical incisions and a longer recovery time," Professor Kerin said.

"The STOP procedure usually takes only 15-20 minutes. Within about an hour the patient can go home or go back to work—it's that simple."

The first successful STOP device placement was performed at The Queen Elizabeth Hospital in September 1997, with the most recent undertaken in March this year at Ashford Community Hospital.

To date, 15 Australian women have had STOP devices implanted, with encouraging results.

Professor Kerin is now keen to expand the program and is seeking women who are considering sterilisation to be involved in the STOP study.

"For women who are considering sterilisation, this simple technique offers an alternative to conventional sterilisation methods; however, they need to be aware that the STOP technique is irreversible," he said.

To be considered for the program, women must be: 25-40 years of age, have at least one living child, and must be in an ongoing relationship.

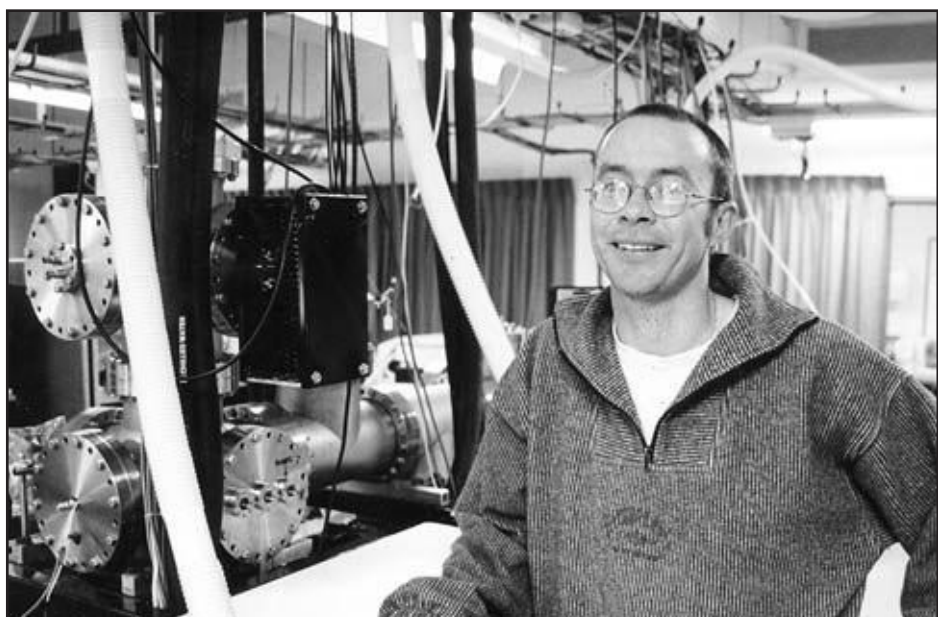
Professor Kerin stressed that, as a research study, the patient would not have to pay for the device or study evaluation procedures. There are no gap payments, even if the patient is not privately insured.

The STOP sterilisation study complies with the Food & Drug Administration (FDA) of America for evaluation of a new device. It has also been approved by the Research & Ethics Committees of The Queen Elizabeth Hospital and Ashford Community Hospital.

Potential patients can contact Ms Helen Plummer, Research Nurse Educator at the Reproductive Medicine Unit's Wakefield Clinic, tel (08) 8232 5100.

—Jan Rohrsheim & Odette Elix

Medal winner: 'nowhere else I'd rather work'



Dr Mark Buntine. Photo: David Ellis

CHEMISTRY researcher and senior lecturer Dr Mark Buntine has been awarded the Rennie Medal by the Royal Australian Chemical Institute (RACI).

This prestigious award recognises excellent work by a young researcher (under 35) over the past ten years, and is judged according to published research papers.

Dr Buntine, who has had 34 papers published, has spent the last five of those ten years with the University of Adelaide's Department of Chemistry. In that time he has received more than \$1.5 million in research funding.

Having originally obtained his Bachelor of Science (Honours) and Master of Science from Monash University, Dr Buntine headed to Stanford University in the US to complete his PhD. He also spent two postdoctoral years at Yale.

Dr Buntine describes himself as a physical chemist who operates at both pure and applied research levels.

He conducts pure research to identify some basic principles of gas-phase ion chemistry, using quantum mechanical theory to explain results and make predictions about possible

experimental approaches.

He has also investigated a new technique which could enable water quality to be monitored in real time using a mass spectrometer. Dr Buntine and collaborators have now patented their technique, which solves the problem of getting water into the mass spectrometer by preventing it from freezing in the vacuum chamber.

This technique could have further applications in the biomedical sciences, such as using mass spectrometers to analyse samples of proteins or peptides.

"I've been well supported here by the Chemistry Department, and as far as universities go in Australia, I love Adelaide," Dr Buntine said.

"There's nowhere else I'd rather work, and there is some very exciting research being conducted here in the Department.

"It's very pleasant to receive the Rennie Medal," he said.

"I was honoured to be nominated by two of my colleagues, Professor John Bowie and Professor Steve Lincoln, and to receive this recognition from my peers is very pleasing."

—David Ellis

Study helps clear the air

A NEW DRUG which shows promise in effectively treating chronic obstructive pulmonary disease (COPD) is being trialled by University of Adelaide researchers.

COPD is a disease characterised by three conditions: chronic bronchitis, emphysema and small airways disease.

COPD obstructs the airflow through the breathing tubes, causing breathing difficulties, and may reduce the transfer of oxygen and carbon dioxide in and out of the blood. This affects a person's ability to perform simple tasks, such as shopping or climbing stairs, and puts strain on other organs.

More than half a million Australians currently suffer from COPD. The main cause of the disease is smoking, with smokers having a 15% chance of developing the disease if they continue to smoke for more than 20 years.

By the time sufferers are diagnosed with COPD, many have already lost at least 50% of their lung function. Those who develop the disease can die prematurely.

The University of Adelaide's Professor of Medicine at The Queen Elizabeth

Hospital, Professor Richard Ruffin, said the new non-steroid drug being studied aims to slow the disease process, not just help the symptoms.

"What we hope to determine is whether moderate to severe symptoms of COPD can be eased or even reversed by this new treatment over a six-month period.

"Studies to date have found it to be well tolerated with few adverse reactions and minimal side effects," he said.

"The drug—which is in a pill form—enables the opening of the airways over an extended period of time. It may also reduce the irritability of the airways, thereby reducing the chronic and productive cough that has developed," Professor Ruffin said.

Study participants are currently being sought for the trial. They must be between 40 and 80 years of age and have been clinically diagnosed with COPD. Both current and ex-smokers are eligible.

The study is also being conducted by Professor Rafaele Scicchitano at the Royal Adelaide Hospital


For more information about the study call 1800 50 50 55.

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Profile: Thinking global for survival in a biotech business world

PETER LANGRIDGE, newly appointed Professor of Plant Science at the University of Adelaide's Waite Campus, has found that the research pathway he started out on many years ago now leads through the hostile world of big business—an aspect of his working life which he is both philosophical and pragmatic about.

He completed his undergraduate studies in Biology at the ANU in 1976, and he gained his PhD there in 1980 while working at the CSIRO. Following a four-year sojourn in Germany studying maize, he took up a position at the Waite Institute where he currently continues with research into the molecular biology of wheat and barley.

The focus of his work is to identify desirable genes in these cereal grains, then bring them together to improve yields, quality and resistance to disease and drought. By identifying the molecular tags which indicate desirable aspects, he can predict the performance of a plant from its genetic makeup, thereby significantly reducing the time taken to develop a new variety.

One notable success of recent times has been a collaboration with barley breeders to develop a barley which is resistant to cereal cyst nematodes, an affliction of the roots which can cut crop yields by as much as 30%.

Results like these have not only impressed many in Professor Langridge's circles but also many in multinational corporations who see vast amounts of money to be made from this work.

As a consequence, biotechnology has become hot property globally, with \$US10 billion spent on acquisitions and takeovers in recent years. The focus of this ferocious competition is ownership of patents for particular plant genes. At the same

time, the structure of farm sector markets has rapidly changed, with seed, fertiliser, consultancy and marketing services all integrated into package deals offered by giant biotech conglomerates.

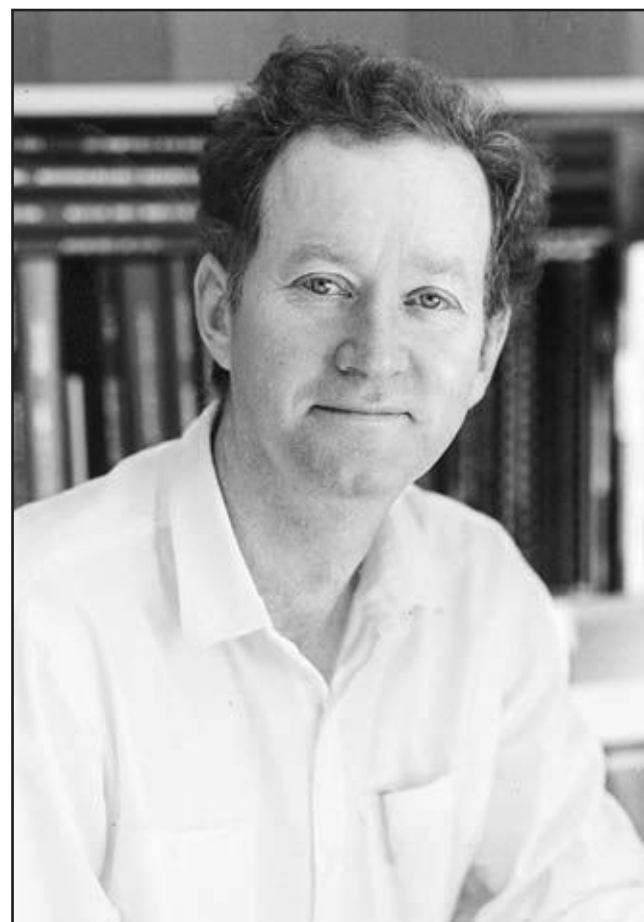
Meanwhile, notes Professor Langridge, government funding for biotechnology research in the US, UK, France, Canada and Germany now measures in the tens and even hundreds of millions of dollars per year, which makes the funding for Australian research seem insignificant by comparison.

Arising out of this is his concern that plant breeding for the Australian market will simply not rate as important enough in the eyes of the big players, and so Australia as a whole will lose out. Already there are cases where the sale of seed varieties in Australia has been blocked purely because the companies involved saw no value in making them available to Australian growers.

Even though the profit motive is rampant and the battle for control over patenting rights to gene technology seems already lost, Professor Langridge draws consolation from the fact that those in corporate circles know they depend for their survival on the graduates provided by the public sector and the long-term exploratory research work done there.

He and other public sector researchers like him have taken measures to strengthen their position by forming an international cooperative of research centres known as ITEC. Already 21 laboratories have joined up and another 20 are likely to join soon. One of the prime rules of the organisation is that no research information on its data base can be patented.

Oddly enough, giant corporations like Du Pont and Novartis have applied to join this cooperative—and even more surprisingly, they have been welcomed as



Peter Langridge. Photo: Photography Unit, Waite Campus

members. Within this context of information sharing, it seems that the wolves and the sheep can indeed get together harmoniously.

While Professor Langridge sees that many colleagues have succumbed to the allures of work in private enterprise, he remains happily within the public sector; partly because of a commitment to it on ideological grounds, and partly knowing that the grass is not always greener on the other side.

—Tony Cox

Commercial Partners — An Avenue for Research Funding

ONE OF the most complex aspects of the work of Luminis is the identification of businesses to commercialise the inventiveness of our researchers. In this article we have selected a few of our current projects in this area. The road to commercialisation can be long, challenging and arduous. However as highlighted in the article on the value of the patenting process by Dr Paul Wyk in the *Adelaidean* of 8 March, the potential rewards can make the effort worthwhile.

In commercialising Intellectual Property the first step is to secure it through an appropriate legal framework such as patents, trade marks or Plant Breeders Rights. It is essential for this to happen before anything is published that might reveal the inventiveness of the research.

By registering for a Provisional Patent the inventor is establishing a "Window" of time in which the invention can be further proven, funds for further research sought, and where commercial partners can be attracted. In fact, a potential partner is more likely to be interested in the invention if a patent process is underway, and this surety strengthens once the patent application has been examined and eventually granted.

From an entrepreneur's point of view, the existence of a patent application means that there is protection against being pirated during the process of attracting commercial partners.

Through its extensive contacts in the Business Community, Luminis then helps to seek funding from commercial partners to assist with further research. Though researchers often

consider this as a remote possibility, it is always worth contacting Luminis for an open discussion on the potential of the invention, and the requirements for funding.

If commercialisation eventuates, a royalty stream back to the inventor and the University is seen as an added bonus. Royalties are relatively easy to manage, they provide researchers with extra income, and do not necessarily involve the researcher in the distractions of business dealings.

In the light of this, we highlight a few of our recent activities in this area.

The Treatment of Infertility with TGFb

Dr Sarah Robertson and Dr Kelton Tremellen in Obstetrics and Gynaecology have found that the recombinant cytokine, TGFb, when administered in a particular manner as a fertility improving agent, can greatly improve the chances of successful pregnancies in couples previously regarded as infertile. They believe that their findings have substantial ramifications in fertility treatment and diagnosis programs for humans, as well as in animal husbandry programs.

A provisional patent has been applied for, and Luminis is now in the process of seeking commercial partners to fund the next stages of research in preparation for commercialisation. In return, a royalty arrangement will be established for the benefit of both the University of Adelaide, the researchers and their department.

Dr Robertson, in conjunction with a Danish research institute, has also discovered a method for increasing the

success rate for the implantation of human embryos. It is hoped that in the very near future an agreement will be reached with the collaborators to conduct the final tests in preparation for the commercialisation of this revolutionary technique.

ATM Switching: Fast Data Transfer for Wide Band Width Applications

Industry apparently has not yet totally developed a reliable large ATM system, and Dr Ken Sarkies in the Department of Electrical and Electronic Engineering believes that he has the right algorithm to achieve this.

Having lodged a patent application, Luminis undertook discussions to explore the best direction for the future development of the technology, and also determine where the final patents might be lodged. Again commercial partners are being sought to fund further research, and in return they will be offered exclusive rights to commercialise any relevant outcomes.

High Vacuum Liquid Ionization Source: A Mass Spectrometer Attachment for Testing Water Samples

In the Department of Chemistry, Dr Mark Buntine and PhD student Wendy Holstein have developed a Liquid Microjet Injector for the injection of liquid samples into a mass spectrometer. The invention incorporates this device and the method by which it is applied to the mass spectrometer. This research has already attracted considerable funding from the Land and Water Resources Research and Development

Corporation and the State Energy and Research Advisory Committee.

In order to thoroughly analyse a water sample the traditional methods have been to administer a range of tests, some remote from the site of the sampling.

The use of a mass spectrometer to test liquids has traditionally not been difficult because of the effects of atmospheric pressure. It is hoped that the use of the HVLIS invention will make it possible to sample water in situ, thereby creating benefits for the research processes.

Having proven the technology, Dr Buntine and Wendy Holstein have sought assistance from Luminis to find commercial partners to fund further research and its commercialisation.

Successes in Recent times

Much has been published about the market successes of Dadanco, Fuel & Combustion Technologies and Gropep, enterprises that have been built around this process. Further back in time, a treatment for the control of Crown Gall Disease in the roots of stone fruit seedlings was developed by Professor Allen Kerr and his associates. They now receive a regular and soon to increase royalty payments from a biotechnology company with international markets.

Academic staff with inventions or research projects that they regard as having commercial potential are encouraged to contact Luminis' Business Development Managers, Paul Szuster and Andrew Cecil on 8303 9020 for a confidential discussion.

—Paul Szuster
Luminis

Education and Federation examined in new publications

MULTICULTURALISM is the focus of a new book by University of Adelaide Professor of Education Jerzy (George) Smolicz.

The book, *JJ Smolicz on Education and Culture*, is a collection of Professor Smolicz's writings on the topic, including discussions on theory and research, and their application to education.

Professor Smolicz, who is also the Director of the Centre for Intercultural Studies & Multicultural Education at the University of Adelaide, is widely acknowledged as having made an impact on the development of language and multicultural education policies in Australia.

About 80 guests attended the book launch at the University Staff Club in March. Among them were the Minister for Youth and Employment, Mr Mark Brindal MP, Justice John Perry, Mr Michael Shulz, Honorary Consul of the Czech Republic and President of the Multicultural Communities Council, Mr Basil Taliangis, Chairman of the South Australian Multicultural and Ethnic Affairs Commission, and Dr Sev Ozdowski, Chief Executive of the Office of Multicultural and International Affairs.

The book, edited by Dr Margaret Secombe of the University's Graduate School of Education and Dr Joseph Zajda of the Australian Catholic University, was officially launched by the Vice-Chancellor, Professor Mary O'Kane.

Meanwhile, Law lecturer Dr John Williams and former Premier Mr John Bannon have launched the second issue of their journal *The New Federalist*.

The New Federalist is a national journal dealing with key legal, historical and societal issues as they relate to Federation, and is to be published twice yearly in the lead-up to the centenary of Federation in 2001.

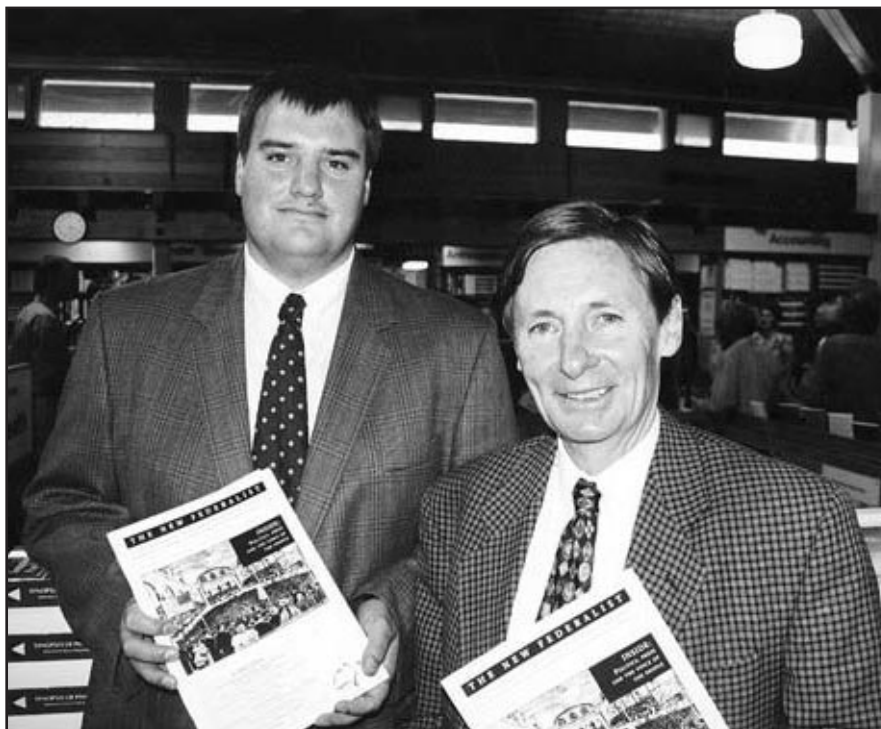
Edited by Dr Williams and Mr Bannon, *The New Federalist* draws on contributions from a range of academics who discuss these issues, both past and present.

Professor O'Kane, who also attended the launch at Unibooks, commended the journal and its role in educating Australians about the founding of their nation.

The New Federalist is supported by the National Council for the Centenary of Federation.



Professor Mary O'Kane and Professor George Smolicz at the launch of "JJ Smolicz on Education & Culture". Photo courtesy of Professor Smolicz.



Dr John Williams and Mr John Bannon at the launch of the latest issue of "The New Federalist". Photo by David Ellis.

CRCs continue industry link

THE UNIVERSITY OF ADELAIDE is a core partner in six Cooperative Research Centres (CRCs) announced by the Federal Government in the latest funding round.

The CRCs are:

Cattle and Beef Quality, which will produce research aimed at enhancing the eating quality and food safety of beef and beef product, and add value to beef;

Viticulture (headquartered in Adelaide), which will accelerate quality viticultural management "from vine to palate";

Biological Control of Pest Animals, which will deliver lasting solutions for the reduction of the devastating environmental and economic impact of introduced pest animals;

Sensor Signal and Information Processing (headquartered in Adelaide), which produces research and development in this field for Australians companies as well as the defence, surveillance, mining and medical sectors;

Welded Structures, which aims to contribute to the international competitiveness of Australian companies by producing research which delivers higher productivity and

lower costs for the manufacture and operation of welded structures; and

Clean Power from Lignite, which is developing technologies to improve efficiency from lignite-based power generation and reduced greenhouse gas emissions.

The CRC program brings together research institutions and industry to tackle research in key areas for the nation.

The Vice-Chancellor of the University of Adelaide, Professor Mary O'Kane, said the announcement was a welcome continuation of the University's solid links with industry.

"We have a keen focus on commercialising our excellent research work and our strong involvement in the CRC program helps us in this goal," Professor O'Kane said.

"These CRCs will produce innovative ideas and solutions in areas which are crucial for South Australia and the nation. They represent areas of research strength for the University of Adelaide, particularly viticulture, information technology, agricultural science and engineering.

"The CRC program also provides some of the most innovative research training in the country."

UPCOMING INAUGURAL LECTURES

- Friday 7 May
Professor Peter Langridge, Plant Science. "Genes for food, food for thought".
 - Friday 14 May
Professor Sally Smith, Soil and Water. "Getting it Together Underground".
- Lecture Theatre 102, Napier Building, at 1.15pm.

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HOSTING A CONFERENCE?

Complimentary workshops are being conducted at your University to provide accurate, up to date and relevant information covering the key considerations of hosting a conference.

28 April 1999 - The University of Adelaide, North Terrace

The range of topics will include:

- Securing a conference for your university
- Distributing the conference workload
- Promoting your conference
- Planning a social program
- Preparing a sponsorship proposal
- Preparing a conference budget
- Working with a professional conference organiser
- Saving time and money by using the complimentary support available from ACTA

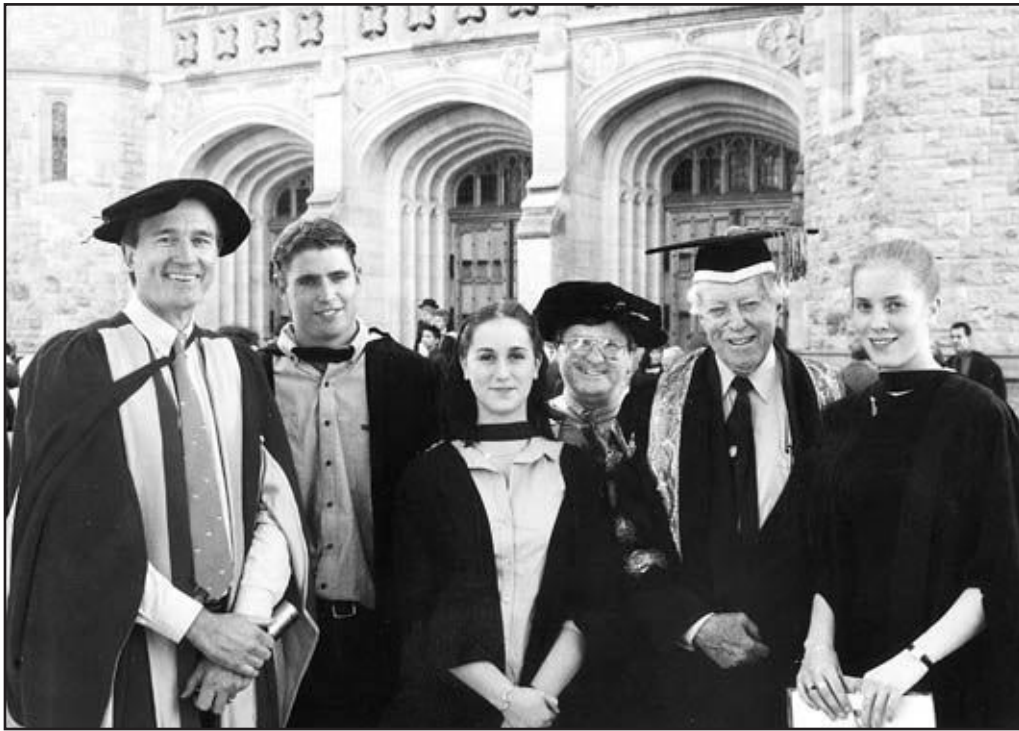
To reserve your place contact
ACTA on 8212 4794 or
at uni@acta.com.au



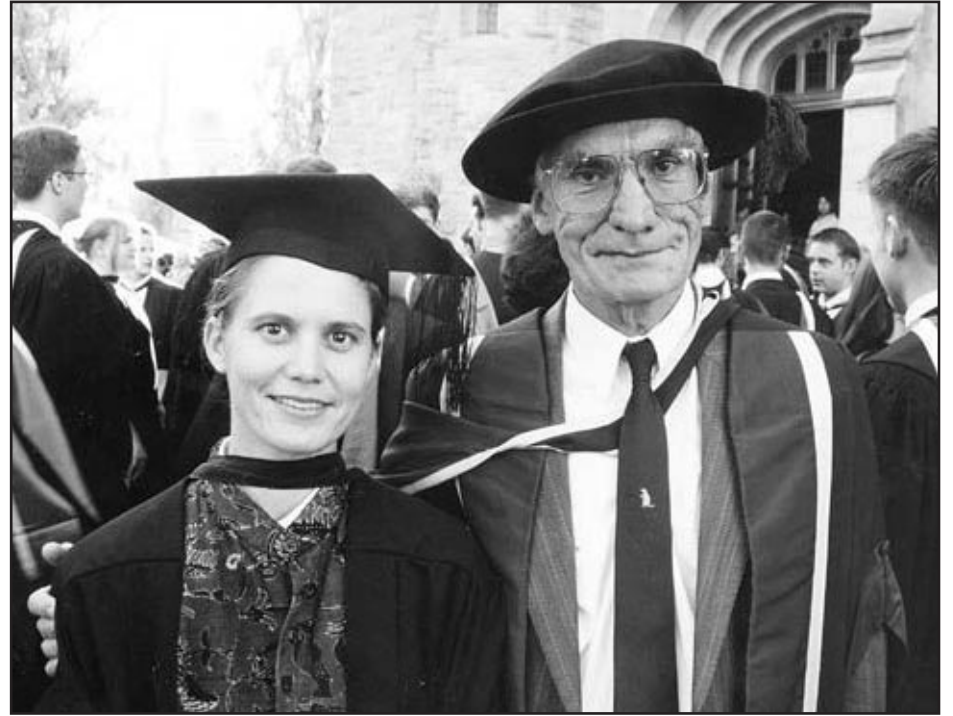
THE UNIVERSITY OF ADELAIDE

Adelaide Convention and Tourism Authority Level 5, 60 Waymouth Street Adelaide SA 5000
Ph: 8212 4794 Fax: 8211 9224 <http://www.visit.adelaide.un.net>

GRADUATIONS 1999



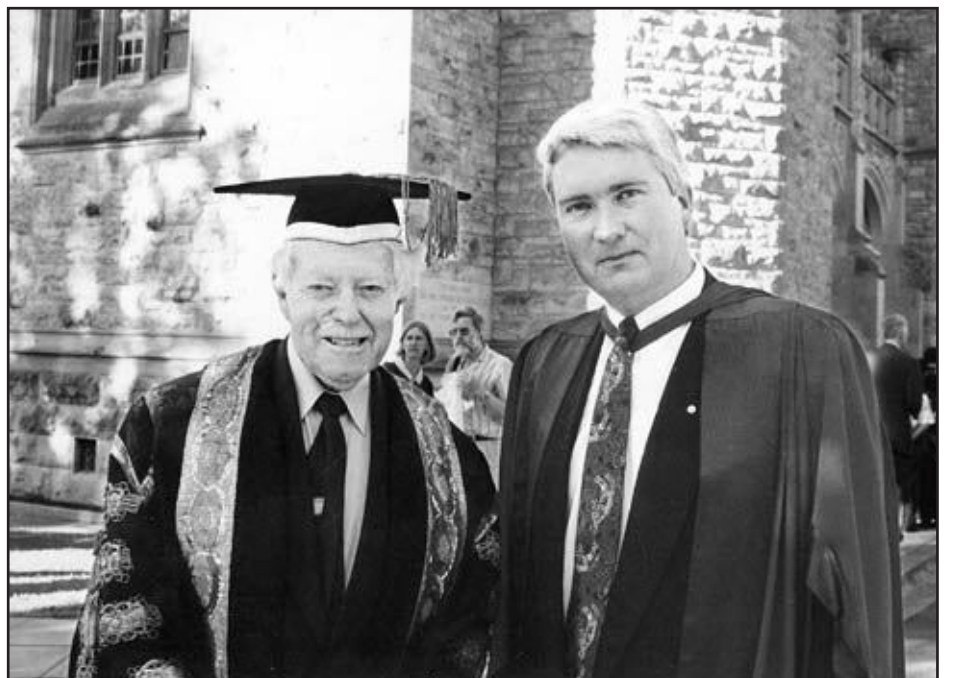
Autumn's commemoration ceremonies saw many members of the University community witness the graduation of family members. Pictured from left: Professor Grant Townsend with his son Benjamin (Bachelor of Arts); Alicia Thomas (Bachelor of Arts) and her father Professor Tony Thomas; and the Chancellor, Mr Bruce Webb, with his daughter Anna (Bachelor of Arts).



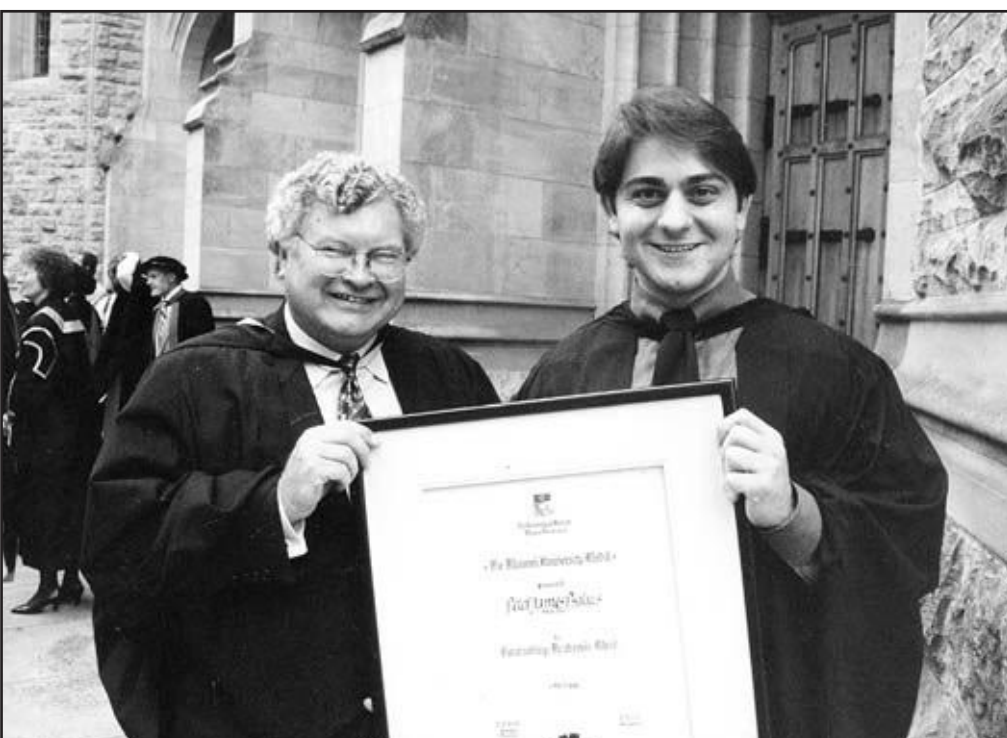
Another family connection: Emeritus Professor Keith Hancock, speaker at this year's ceremony for Economics and Commerce, saw his daughter Katherine Hancock graduate with a Master of Economics degree. Another speaker to see his daughter graduate was the Hon. Neil Andrew, Speaker of the House of Representatives. Mr Andrew spoke at the Law ceremony where his daughter Kathryn graduated LLB.



Kasminder Kaur Khaira (centre) graduated with her Bachelor of Finance degree and is pictured here with her family. One of her sisters, Paminder (far right), is also a University of Adelaide graduate (Bachelor of Dental Surgery, 1997).



The Chancellor, Mr Bruce Webb, with Father Frank Brennan, the guest speaker at the graduation ceremony for the Humanities and Social Sciences. Father Brennan, a Jesuit priest and lawyer, spoke about the Prime Minister's proposed new preamble for the Constitution—and suggested a version of his own.



Congratulations to medical graduate Dr Peter Psaltis, who's received one of the University's most prestigious awards: the Alumni Medal. He was presented with the medal by the Chairman of the Alumni Association, the Hon. Greg Crafter, at this year's graduation ceremony for Medicine and Dentistry. During his Medical degree, Dr Psaltis won more than 20 prizes for academic achievement.



Another award-winner: Ms Irene (Ai Lin) Lim graduated with a Bachelor of Commerce (Accounting). Ms Lim was awarded the Guerilla Advertising & Design Prize for her excellent work in the third-year subject Marketing Communications III.

Advertisement

Jazz award winners concert

Jazz Awards
1999 CONCERT

FEATURING
THE ELDER CONSERVATORIUM
SCHOOL OF PERFORMING ARTS
'98 AWARD WINNING
JAZZ STUDENTS

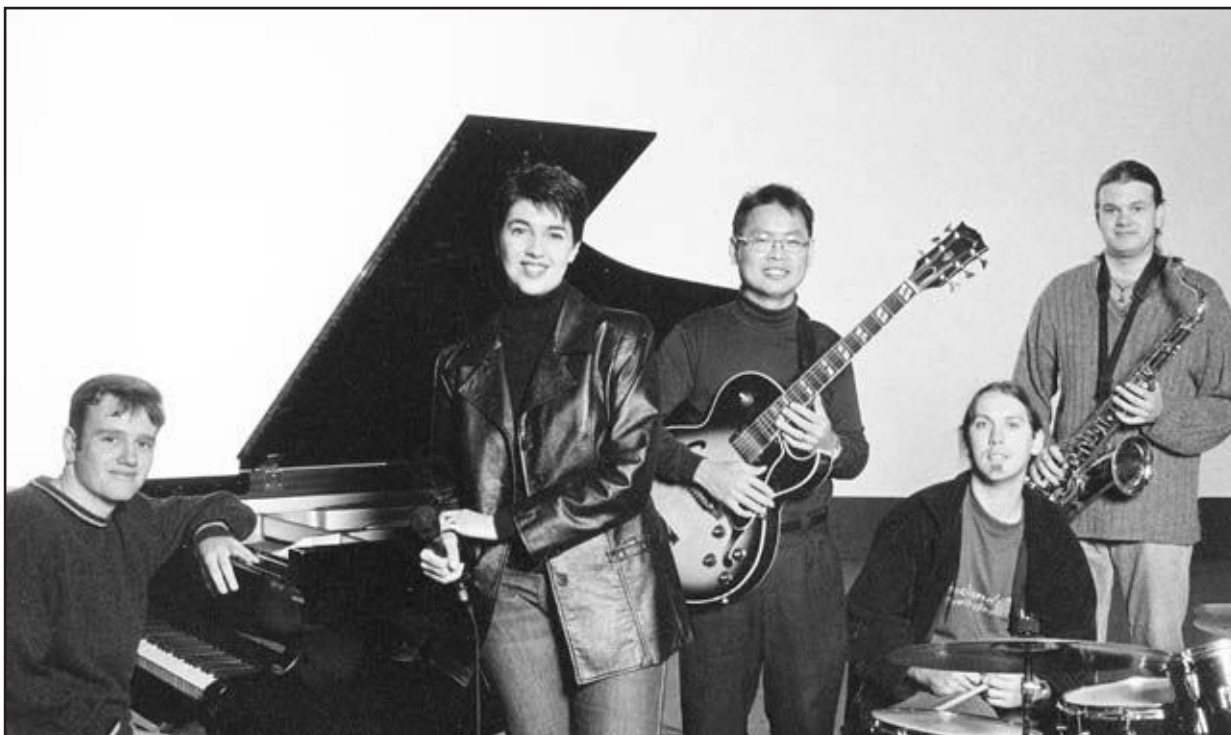
THE UNIVERSITY
OF ADELAIDE

**Helpmann
Academy**

8pm
12th MAY 1999
SCOTT THEATRE
KINTORE AVENUE
ADELAIDE

TICKETS AT THE DOOR
\$10 AND \$5 CONCESSION

ENQUIRIES
8303 5272



L to R: Peter Zanker, Jayne-Anne Power, Dave Wee, Kelvin Sugars, Adam Page and Michael Stewart. Missing is Cameron Deyell, who is currently working in Sydney with his own ensemble. Photo: Alex Makeyev.

THE THIRD AND FINAL Jazz Awards Concert of this millennium featuring seven top jazz musicians from the Elder Conservatorium School of Performing Arts Jazz course will be held in the Scott Theatre at 8pm on 12 May, 1999.

The concert will showcase the best postgraduate and undergraduate students of 1998 in ensembles, trios and duets with a program ranging from jazz classics to the winners' own compositions.

Once again Adelaide's corporate and music sectors have shown their support for the city's emerging musicians by sponsoring cash and voucher prizes for the winners. These will be presented during the concert.

For the first time there are two winners for the Most Outstanding Postgraduate Award. They are

Michael Stewart, saxophone (\$500 prize sponsored by Laureate Chapter Beta Sigma Phi), and Cameron Deyell, guitar (\$500 prize sponsored by John Davis Records and Helpmann Academy).

The most Outstanding Undergraduate Award has been won by Dave Wee, guitar, who receives a \$500 prize sponsored by Baron Partners and In-fluence Presentations.

Other undergraduate awards go to Kelvin Sugars, drum (\$300 sponsored by John Reynolds Music City); Peter Zanker, piano (\$300 sponsored by B Sharp Records); Adam Page, saxophone (\$300 sponsored by Jazz Action Society); Jayne-Anne Power, voice (\$300 sponsored by dB Magazine).

Tickets, \$10 and \$5 concession, will be available at the door.

—Sheila Bryce

Inaugural finance prize

FINANCE student Ms Amy Teoh is now \$500 better off after winning the inaugural Patrick Whelan Investments prize.

The prize, which goes to a student undertaking Level II Finance, is based on academic excellence.

The managing director of Patrick Whelan Investments, Mr Richard Levy, said the company would award more prizes over five years.

"We became involved with the University of Adelaide by providing financial planning advice to quite a few staff who were taking packages

or retiring," Mr Levy explained.

"We thought it would be a good idea to put something back into the University, and the community, by encouraging the future of our young people and rewarding their excellence."

Ms Teoh, who is studying for a double degree in Economics and Finance, said she was very pleased to be awarded the prize

Pictured Right: Finance student Amy Teoh being congratulated by Richard Levy from Patrick Whelan Investments and Professor Alan Carey from the School of Mathematical Sciences.



ACCOMMODATION

ACADEMIC'S HOUSE: attractive fully furnished 3 br, near beach and transport. Avail for long or short rental. Ph 8356 9582/ 8201 2377.

GILBERTON: On River park. 2 br. furn. unit. r/c aircon. l.u. garage, garden. Suit quiet person(s). \$170 pw + bond.. Ph 83625332 or 0418841461, nellis@chariot.net.au

GLEN OSMOND: 3 br, fully furn house. Walking distance to good schools & Waite Campus. Near transport. No pets, lawns mown. \$210 pw + bond. Avail. early May. Ph 8379 4869.

KINGSWOOD: Fully furn, 3

br house for rent. Avail. from July 1st to Dec 31st. Close to shopping and transport. 20 minutes walk to Waite Campus. \$190 p/w. Ph Ian on 8303 7379 or 8299 9193.

NORTH ADELAIDE: Character Cottage, recently renovated for short or long term lease. 2 br, 1 lounge & dining, new kitchen & bathroom with garden. furnished. \$230 pw. Ph 0419 804 440.

ROYSTON PARK: House 4 km from city, 2/3 br. Avail from 12/6 - 14/8. Suit visiting academic. Rent negotiable. Ph. 8362 5447 or 8303 5129.

SEMAPHORE: House avail for rent for 6-12 months - owner abroad. Fully furn, 3

ADELAIDEAN CLASSIFIED

br, near beach, 20 mins to city. Ph: 8341 7024.

SEMAPHORE: Room for rent - Available now. Room with direct balcony access in historic terrace 2 blocks from beach. \$70.00 p/w. Ph Fiona - 8303 4186, or <fnicoll@arts.adelaide.edu.au>

WANTED: Visiting academic seeks fully furn. three-bedroom unit or house, from mid Sept to Dec. Suitable for family of five, prefer quiet, family-friendly location, within cycling distance

of Uni, or close to transport. Ph. Heather/Mary 8303 5685 (w) or fax 8232 6541.

WANTED: Visiting academic from Germany seeks fully furn. house. Suitable for family of four, prefer near city or Eastern suburbs for 1 year from Aug 1999 to July Y2K. Ph/Fax: Ewe 8379 9616

FOR SALE

MODULAR LOUNGE: Blue in fairly good condition \$50.00. Cathy 83036501 or 8278 4427 (h)

BOOKS: Chemistry, Maths and Psychology \$15.00-\$30.00. Ph: 8303 3410.

HYUNDAI EXCEL: 1989, 5-speed manual, 5-door hatch, metallic gold. Excellent condition interior/exterior/engine. UPT 015 \$3,300 ono. Ph: 8303 6612 or 0414 948494.

MISC: Fridge, painted red, good first fridge \$75; draughting table, grey \$70; video cabinet, black with glass doors \$30; coffee table \$15. Phone 8354 1747.

VOLVO: 244 DL, 1981, manual, ac, WFI 627. Yellow, good runner, clean and nice. \$2,500. Ph 8303 3101 (w) or 8267 6858 (h), or

<urban.janlert@psychology.adelaide.edu.au>

TENDER

COMPUTER EQUIPMENT: PowerMac 6100/60 8/250 14" monitor, Macintosh SE, Acerview 56L monitor, Mac IIcx (not working) with monitor, Laserwriter II (not working). Tender in a sealed envelope to Lachlan Tailby Dept Plant Science by Thurs 20 May. Enquires 83036746.

MISCELLANEOUS

CHILD CARE: Reliable, references available, own transport. Ph Rebecca 8262 5134.

Bulletin Board

MAY 3, 1999

THE UNIVERSITY OF ADELAIDE

PAGE 1

Student enrolments

Students are now able to make direct amendments to their enrolment or personal details in the University Student Information System without filling in a form. The system is instantaneous and updates your record as soon as you make the changes.

This convenient service is run through SOLAR. The Student Information Office has computers available for students to use this program. Library computers and faculty computing suites are generally available but you should check with your computing officer first.

Online enrolments has two separate functions. The first function is Withdrawals from subjects. This enables students to withdraw themselves from as many subjects as they wish apart from complete withdrawals. To completely withdraw, students will still need to see the relevant Faculty. The second function is Change to Personal Details which allows students to change their address and telephone number. To access the SOLAR system, students will need to have their student number and their PIN. Students should contact the Student Information Office with any queries.

THE JOSEPH FISHER LECTURE

Human Behaviour and the Transmission of Infectious Disease: An Economist's Perspective by Prof Mark Gersovitz (Johns Hopkins University), Thurs 3 June 1999, 5.30-6.30pm, Lecture Rm 102, 1st Flr, Napier. Enquiries 8303 5528

Professor Gersovitz is a distinguished economist recognised especially for his analysis of sovereign debt issues and for his work on economic development. He has travelled professionally to many African and Asian countries and has done projects for the Asian Development Bank, the UNDP, USAID, and the World Bank among other organisations. His work on international capital mobility is widely cited and provided a basis for understanding the Debt Crisis of the mid-1980s. He has co-authored a study on AIDS and surveys of sexual behaviour recently published in the Journal of the American Statistical Association and is continuing his research interest in infectious diseases and economics as well as working on rural transport, taxation and business legal structures in poor countries.

Business Enterprise Program

The University of Adelaide Enterprise Education Group

Focusing on new enterprise creation and management, entrepreneurship and innovation - programs designed at professional and graduate level.

Increasing numbers of university graduates are choosing to work for themselves, setting up consultancies and establishing businesses based on services and products.

If you are a student, graduate, (recent or past) BIG applicant* and self-employment appeals to you, come to our one-day workshop: Being self-employed: what's involved? Where do I start? to be held Thursday 20 May.

Concession fees available. Bookings close 12 May.

We also run Business Enterprise courses (on campus and externally) that will enable you to understand and apply knowledge and skills relating to the creation and management of small to medium enterprises. Designed for graduates from all disciplines.

Registration for next external study period closes 21 May.

* BIG: Business Initiatives from Graduates. See story in the 5 April *Adelaidean*, page 4.

Details/registrations: Clare 8303 3098, fax 8303 4844, email <ccoster@il.adelaide.edu.au>.

MONDAY 3 MAY

12noon Plant Science Seminar: Influence of the WM1 family of early meiosis genes on chromosome pairing and recombination in bread wheat (*Triticum aestivum*) by Ryan Whitford. A trapping strategy to identify genes involved in apomixis by Matthew Lynch (PhD students). PS Seminar Room, Waite.

1.00pm Microbiology & Immunology Seminar: Interspecies sequence differences in the Mip protein from the genus *Legionella*: implications for function and evolutionary relatedness by Mr Rodney Ratcliff (Infectious Diseases Laboratories, IMVS). Departmental Library, 5th Flr, Medical School Sth.

1.00pm Clinical & Experimental Pharmacology Seminar: Does a glass a day keep disease away? The protective effect of moderate red wine consumption on biomarkers of cardiovascular disease and cancer by Mr Will Greenrod (PhD student). Seminar Rm, 6th Flr, Medical School, Nth.

1.10pm Geographical & Environmental Studies Seminar: Environmental policy making under conservative governments: the emergence of wise and sequential use by Dr T Doyle. Rm 104, Environmental Studies Building.

1.10pm Student Workshop: Communicating Effectively by Susan Howard. Counselling Centre, Ground Floor, Horace Lamb Building.

4.00pm Applied and Molecular Ecology Final PhD Seminar: Different attempts for bio-diversity management on a regional scale by Batbold Dorjgurhem. Charles Hawker Conference Centre, Waite.

4.00pm Centre for Applied Modelling in Water Engineering Inaugural Seminar: The evolution of wind generated waves in water of finite depth by Prof Ian Young (Executive Dean, Faculty of Engineering, Computer & Mathematical Sciences). Rm N132, Engineering Nth. Tea/coffee N134 3.30pm.

TUESDAY 4 MAY

12noon Child Health Research Institute Seminar: Fermentable Carbohydrate and the Large Bowel Microflora - Implications for Colon Function by Dr David Topping (Human Nutrition, CSIRO). Seminar Room, 7th Floor, Rieger Building, WCH.

1.10pm Law Seminar: False Economies: Women and Superannuation by Ms Dimity Kingsford-Smith (Sydney Law

COMING EVENTS

May 3rd — May 14th

School). Sem Rm 216, Ligertwood.

1.10pm Anatomical Sciences Seminar: The Life and Death of an Osteoclast by Associate Professor David Findlay (Orthopaedics & Trauma). Room S127, Medical School, South Wing.

WEDNESDAY 5 MAY

10.10am Electrical & Electronic Engineering Seminar: Instruction Level Parallelism Compilation for Predicated Code by Ms Ping Hu (Postgraduate). Lecture Room S112, Engineering South.

12.30pm General Practice Teaching Unit: Patient Centred Care: Does it fit with Guidelines? by Prof Howie (Edinburgh Uni). Sth Wing Sem Rm, Modbury Hospital.

1.00pm Friends of the State Library of SA Talk: Greg Mackie (Director, Imprints Bookshop / Chair, Festival of Ideas / Former Chair, Writers Week). \$5/\$3. Institute Building, cnr Kintore Av (entrance) and North Tce.

1.10pm Physics & Mathematical Physics Seminar: Cygnus X-3, a turbo-charged swan? by Prof Jocelyn Bell Burnell (The Open University, UK). Macbeth Lecture Theatre, Badger Building.

1.10pm Geology & Geophysics Seminar: Application of Geostatistics to Irrigated Riverland Properties by Dr Peter Brooker. Mawson LT, Mawson Labs.

1.10pm Horticulture, Viticulture & Oenology Seminar: Molecular breeding of cereals; status and prospects by Prof Peter Langridge (Basic & Applied Plant Molecular Biology). Plant Research Cen Auditorium.

4.00pm Physiology Seminar: Interactions between the CRC for Tissue Growth Factors and Repair and Gro-Pep by Dr J Ballard (Director, Gro-Pep). Sem Rm N416-417, Lev 4, Medical School Nth.

THURSDAY 6 MAY

12.05pm Psychology Seminar: Moving beyond numbers: Sexual harassment and police women by Ms Michelle Circelli (National Police Research Unit). Room 527, Hughes Building.

1.10pm Student Workshop: Communication in Relationships. Counselling Centre, Ground Floor, Horace Lamb.

FRIDAY 7 MAY

12.45pm Dental School Seminar: Experimental nerve regeneration by Dr Damien Kent. Lecture Theatre 1, 6th Floor, Adelaide Dental Hospital.

1.10pm Elder Conservatorium Lunch Hour Concert: Margaret Blades - violin, Janis Laurs - cello, David Lockett - piano. Works by Ravel. Elder Hall. \$2.

1.15pm Inaugural Lecture Series: Genes for food, food for thought by Prof PLangridge (Plant Science). LT 102, Napier.

2.15pm Philosophy Seminar: Indigenous Rights and Western Justice by John Chandler. Room 707, Level 7, Hughes.

3.30pm Agronomy & Farming Systems Seminar: The nutrient composition of crops in relation to human nutrition by Prof R Graham. Sem Rm, AFS, Roseworthy.

4.00pm Obstetrics & Gynaecology Seminar: Cytokine regulation of human embryo development by Drs Ian Sargent & Karen Martin (John Radcliffe Hospital). Seminar Rm, 6th Floor, Medical School Nth.

MONDAY 10 MAY

12noon Plant Science Seminar: Selection and breeding of some woody plants - tale of masochism by Professor Margaret Sedgley (HVO). Charles Hawker Conference Centre, Waite Campus.

1.00pm Clinical & Experimental Pharmacology: Pharmacology of Naltrexone by Ms Sue Porter (PhD student). Seminar Rm, 6th Flr, Medical School, Nth.

1.10pm History Seminar: Borneo Burlesque: a story of survival in a POW camp by Dr Michele Cunningham. Common Room 420, Napier Building.

1.10pm Law Seminar: Legal Separatism and the Concept of the Person by Dr M Davies (Flinders Law School). Seminar Room 216, Ligertwood Building.

1.10pm Geographical & Environmental Studies Seminar: Global carbon storage: myths and models by Dr Jonathan Adams. Rm 104, Environmental Studies.

1.10pm Student Workshop: Developing a lifestyle that reduces stress and worry by Mark O'Donoghue. Counselling Centre, Ground Flr, Horace Lamb.

2.00pm English Seminar: Some

Ways of Writing Fictocritically, by Simon Robb. Room 618, Level 6, Napier Building.

TUESDAY 11 MAY

1.10pm Student Workshop: Procrastination by Sally Hebenstreit. Discussion Rm 1, Charles Hawker Conf Cen, Waite.

3.15pm Anthropology Seminar: Talking Risk, Managing Crisis: The Politics of Environmental Conflict in the Republic of Ireland by Ade Peace (Anthropology). Room 722, 7th Floor, Napier Building.

WEDNESDAY 12 MAY

1.10pm Geology and Geophysics Seminar: The Cretaceous-Tertiary Boundary Impact Event: Geological and Biological Evidence Begg the Question Whether the Dinosaurs Were Already Dead by Dr N Alley (Director, Minerals Resource Group, PIRSA). Mawson Lecture Theatre.

1.10pm Student Workshop: Making Friends by Sue Barnard. Counselling Centre, Ground Floor, Horace Lamb.

4.00pm Physiology Seminar: Interactions between hypophysial and local mediators of adrenocortical growth and function before birth by Jacob Ross. Room N416-417, Level 4, Medical School North.

THURSDAY 13 MAY

12.05pm Psychology Seminar: Adapting to ageing by Dr Rob Ranzijn (Psychology, University of South Australia). Room 527, Level 5, Hughes Building.

1.10pm Student Workshop: Procrastination by S Hebenstreit. Counselling Cen, Horace Lamb Building.

7.45pm Field Geology Club Public Lecture: Hippo hunters of the Sahara by Prof Martin Williams. Mawson Lec Theatre.

FRIDAY 14 MAY

12.45pm Dentistry Seminar: Special circumstance exams by Vivien Joseph. LT 1, 6th Floor, Adelaide Dental Hospital.

1.10pm Elder Con Lunch Concert: Ronald Woodcock - violin, Stefan Ammer - piano. Works by Mendelssohn and Dorian le Gallienne. Elder Hall. \$2.

1.10pm Asian Studies: Production of Illiteracy in Rural China by Liz Billard (PhD candidate). Rm 518, Ligertwood.

1.15pm Inaugural Lecture Series: Getting it together underground by Prof S Smith (Soil and Water). LT 102, Napier.

SITUATIONS VACANT

Applications for the following vacancies will be considered only from members of the staff of the University**

SENIOR LIBRARY ASSISTANT (JOURNALS) (ACTING) (Ref: 4191)

Barr Smith Library
Salary HEO5: \$34,610 - \$38,619

The Senior Library Assistant (Journals) supervises and trains the staff in the Acquisition (Journals) section to ensure the efficient performance of duties associated with the receipt of journals and documents and their preparation for binding as well as the maintenance of subscription records for various formats, print, electronic and microform. The Senior Library Assistant places orders and cancels subscriptions, ensures that invoices are passed promptly for payment and undertakes personally the resolution of more complex supply problems.

The position is under general direction of the Acquisition Librarian and liaises with staff in other areas of the Library to ensure coordination of functions, as well as contributing to the further development of the automated system in the Journals area and the provision of statistics and reports.

You should have:

- demonstrated ability to supervise and train staff in a team environment
- experience in the acquisition process, preferably with serials, including print, electronic and microfilm
- good interpersonal skills.
- good written communication skills
- problem-solving skills
- skills in searching bibliographic databases and knowledge of appropriate sources of supply for serials.

This position is available from 15 June 1999 for twelve months as a replacement for a staff member on leave. Further details from Ruth Slater, tel: 8303 4258. The selection criteria and duty statement from Toni Luppino, tel: 8303 5370.

*APPLICATIONS should include names and addresses of two referees, to the University Librarian, University of Adelaide, Australia 5005 by 10 May 1999.

GENERAL LIBRARY ASSISTANT (Ref: 2117)

Barr Smith Library
Salary HEO2: \$25,388 - \$26,992**
To undertake a variety of clerical

activities in the Bibliographic Services area. Applicants will be expected to participate in rostered duties.

You should have:

- accuracy and attention to detail
- good organisational skills and ability to meet deadlines
- good communication skills
- keyboard and basic word processing skills
- ability to work in a team environment
- successful completion of Year 12 or relevant experience.

Some experience with journal publications would be an advantage.

**Junior rates apply to those persons 20 years of age and under.

This continuing position is available immediately. Further details from Jordana Arezina, tel: 8303 5225. The selection criteria and duty statement from Toni Luppino, Barr Smith Library, tel: 8303 5370.

*APPLICATIONS should include names and addresses of two referees, to the University Librarian, University of Adelaide, Australia 5005 by 10 May 1999.

**includes only those persons who hold current written contracts of appointment with the University.

Applications for the following vacancies are not restricted to members of the University.

SENIOR LECTURER C (Ref: 4201)

Department of Obstetrics and Gynaecology
Salary \$59,332 - \$68,415

The Department of Obstetrics and Gynaecology has an outstanding worldwide reputation in its teaching, clinical and research record. The Department provides teaching to 5th and 6th Year medical students as well as undergraduate teaching in reproductive biology. Clinical expertise is provided in a range of areas with a high level of service in the treatment of infertility and assisted reproduction through its highly successful Reproductive Medicine Unit. Research is actively encouraged and the quality and success can be measured by its high rate of success in attracting external research funding coupled with an impressive publications listing. The Department is located in the University's Medical School as well as in the four major teaching Hospitals in Adelaide.

This position is located at The Queen Elizabeth Hospital, where the Reproductive Medicine Unit is

based. The successful applicant will contribute to the teaching, clinical and research activities of the Department and work as part of the team.

You should have:

- a medical degree with appropriate qualifications in Obstetrics and Gynaecology and be registered, or qualify to register, with the Medical Board of South Australia
- experience in teaching obstetrics and gynaecology to Medical students
- research experience.

It is desirable that the successful applicant will actively contribute to the research profile of the Department and will hold a MD or PhD.

The position is available immediately for three years. Further details from Professor R Norman tel: 8222 6788, fax: 8222 7521, email: <rnorman@medicine.adelaide.edu.au> or Professor JS Robinson tel: 8303 5100 or fax: 8303 4099.

*APPLICATIONS to the General Manager, Human Resources, University of Adelaide, Australia 5005, by 7 June 1999.

SENIOR LECTURER C/ ASSOCIATE PROFESSOR D (Ref: 3008) (Tenurable)

Chemical Engineering
Salary: \$59,332-\$68,415/\$71,442-\$78,706

Applications are invited for this position from people with expertise and research interests in the fields of combustion, reaction kinetics, reaction engineering, or other related areas to join this highly respected institution.

The Department of Chemical Engineering is a key participant in the recently approved Cooperative Research Centre (CRC) for Clean Power from Lignite (successor to the existing CRC for New Technologies for Power Generation from Low-Rank Coal). The Departments of Chemical and Mechanical Engineering also have a joint Turbulence, Energy and Combustion (TEC) Research Group. The TEC Group has strong international research links and industry networking, and close collaboration between the researchers in the two Departments. A distinctive feature of the Group's work is its close collaboration with its industrial partners, who support much of the research. The TEC Group spans the fields of fluid mechanics, chemical kinetics, turbulent diffusion flames, pulverised coal combustion and laser diagnostics. Its special focus is the influence of the mixing characteristics of jets on combustion.

The existing CRC is undertaking a range of research projects aimed at the development and commercialisation of new, cost-effective and environmentally acceptable technologies for power generation from lignite. The principal advanced technology to be pursued by the new CRC involves a combination of pressurised lignite gasification and pressurised char combustion. The new CRC will also have an additional focus on projects to improve the operational efficiency of existing lignite fired power stations.

The appointee will have a significant role in both the TEC Group and the CRC, and will be expected to initiate and supervise research projects within the Group's and the CRC's programs, and to develop and present courses within the University at both undergraduate and postgraduate level.

The Department has 10 academic and research staff, 10 administrative and technical staff, approximately 250 undergraduate students, and 20 Masters and PhD students. It also has excellent computing and laboratory facilities.

The successful applicant for the position will be an outstanding researcher in fuel and combustion technology.

You should have:

- a PhD in Chemical Engineering or equivalent, with extensive research experience preferably in the area of combustion, reaction kinetics or reaction engineering
- appropriate professional and research experience for appointment at this senior level
- proven teaching ability at both undergraduate and postgraduate level
- demonstrated ability to work with and to promote effective links with industry
- demonstrated leadership in an academic or industrial environment.

The position is available immediately. Further details from Assoc Professor Keith King, Head, Chemical Engineering, tel: 8303 5455 fax: 8303 4373 or email: <kking@chemeng.adelaide.edu.au>

FEMALE APPLICANTS ARE PARTICULARLY ENCOURAGED TO APPLY

*APPLICATIONS to the General Manager, Human Resources, University of Adelaide, Australia 5005 by 31 May 1999

CRC for Clean Power from Lignite

LECTURER B/SENIOR LECTURER C (Ref: 3147) (Limited-Term)
Department of Chemical Engineering
Salary: \$48,435 - \$57,518/\$59,332 - \$68,415

Applications are invited for this position from people with expertise and research interests in the fields of coal gasification, coal combustion, coal matter reactions, reaction kinetics, reaction engineering, or other related areas to join this highly respected institution.

The Department of Chemical Engineering is a key participant in the recently approved Cooperative Research Centre (CRC) for Clean Power from Lignite (successor to the existing CRC for New Technologies for Power Generation from Low-Rank Coal). The existing CRC is undertaking a range of research projects aimed at the development and commercialisation of new, cost-effective and environmentally acceptable technologies for power

generation from lignite. The principal advanced technology to be pursued by the new CRC involves a combination of pressurised lignite gasification and pressurised char combustion. The new CRC will also have an additional focus on projects to improve the operational efficiency of existing lignite fired power stations.

The CRC Lecturer position is offered by the Department of Chemical Engineering in conjunction with the CRC for Clean Power from Lignite. The appointee will be expected to initiate and supervise research projects within the Centre's programs, and to develop and present courses within the University.

The Department has 10 academic and research staff, 10 administrative and technical staff, approximately 250 undergraduate students, and 20 Masters and PhD students. It also has excellent computing and laboratory facilities.

You should have:

- a PhD in Chemical Engineering or equivalent, with research experience preferably in the area of coal gasification, coal combustion, coal matter reactions, reaction kinetics, or reaction engineering
- experience in supervision of postgraduate students and the ability to develop an active research program
- proven teaching ability at both undergraduate and postgraduate level
- industrial experience in related areas would be an advantage.

The position is available immediately for a period of three years with the possibility of renewal. Further details from Assoc Professor Keith King, Head, Chemical Engineering, tel: 8303 5455 fax: 8303 4373 or email: <kking@chemeng.adelaide.edu.au>

FEMALE APPLICANTS ARE PARTICULARLY ENCOURAGED TO APPLY

*APPLICATIONS to the General Manager, Human Resources, University of Adelaide, Australia 5005 by 31 May 1999.

RESEARCH ASSISTANT (Ref 4203)

Departments of Obstetrics & Gynaecology and General Practice

Located at The Women's and Children's Hospital
Full-time Salary HEO5/6: \$31,803 - \$41,959

To help set up and coordinate a feasibility study in general practice for a long term randomised controlled trial of hormone replacement therapy (the WISDOM Trial) and assist in the preparation of research grants for the long term funding of this trial.

You should have:

- a degree in health sciences, minimum BSc (Hons), BHSc (Hons) or MPH
- excellent computer skills in word processing, spread sheets and databases
- an understanding of randomised controlled clinical trials
- excellent interpersonal and communication skills including creative writing and excellent spelling and grammatical skills.

The position is available immediately on a 36.75 hours per fortnight basis, for one year in the first instance with the possibility of renewal. Further details from Associate Professor Alastair MacLennan, tel: 8204 7619.

EMPLOYMENT INFORMATION

*APPLICATIONS, IN DUPLICATE, addressing the selection criteria and quoting the relevant reference number should include names and full addresses of three referees. The address for applications is C/- the Department or Officer named in the advertisement. Selection criteria and applicable duty statement may be obtained from the contact officer named in the advertisement.

NOTICE TO APPLICANTS: Applicants for all positions should retain the relevant reference number and watch the "Notice to Applicants" column in the *Adelaidean* for advice about the filling of the position.

NOTICE TO APPLICANTS: The University notifies applicants that the following vacancies for Higher Education Officers (HEO) with the reference numbers as stated have been filled and thanks them for their interest: 4289 HEO2, Graduate School of

Management; 3908 HEO8, Faculty of PALACE; 3867 Research Assistant, Dentistry; 3360 HEO3, Psychiatry.

HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

- For the *Adelaidean* of 31 May, advertising paper work must be to Human Resources by 14 May.
- For the *Adelaidean* of 14 June, advertising paper work must be to Human Resources by 28 May.

HR WEB PAGE for advertised positions
<<http://www.adelaide.edu.au/HR/advpos.htm>>

***APPLICATIONS** to Associate Professor A MacLennan, Department of Obstetrics and Gynaecology, Women's and Children's Hospital, 72 King William Road, North Adelaide, South Australia 5006 by 7 May 1999.

RESEARCH OFFICERS (Ref: 4254/4261)

Road Accident Research Unit
Salary HEO5/6: \$31,803 - \$41,959
Two full time positions have become available at the Road Accident Research Unit for Research Psychologists to assist in the study of road crashes.

Duties will include data collection at the scene of road accidents and elsewhere, data analysis and preparation of reports performed under limited supervision from the Director of the Unit.

You should have:

- an Honours degree in Psychology together with a sound knowledge of statistical methods and computer statistics packages
- a current driver's licence
- the ability to deal with confidential and sensitive matters.

Experience in the planning and conduct of research projects, and experience in the investigation of and reconstruction of crashes is desirable. Regular out of hours work will be required. Both positions are available from May 1999, for twelve months in the first instance. Details from the Road Accident Research Unit, tel: 8303 5997.

***APPLICATIONS** to Professor AJ McLean, Director, Road Accident Research, University of Adelaide, Australia 5005 by 10 May 1999.

ADMINISTRATIVE ASSISTANT (Ref: 4168)

International Programs Office
Salary HEO 3: \$26,725 - \$30,467
To work as one of a group of three administrative assistants with shared responsibilities for reception and processing of international student applications. In addition the position includes producing statistical reports from the Student Information System using Impromptu, monitoring office stationery supplies and other administrative work as necessary for the working of the office.

You should have:

- ability to communicate

- appropriately in reception
- computer competency with a knowledge of Microsoft Word
- ability to work under pressure and prioritise the workload while maintaining attention to detail
- ability to work effectively as a member of a team
- ability to communicate with people who have varying levels of English language competency.

Knowledge of administrative procedures in a university, an understanding of other cultures and a knowledge of Impromptu is desirable.

This position is available from 18 May 1999 for a period of twelve months. Further details from Julia Segaran tel: 8303 5252.

***APPLICATIONS** to the Director, International Programs, University of Adelaide, Australia 5005 by 7 May 1999.

ADMINISTRATIVE ASSISTANT (Ref: 3433)

International Programs Office
Salary HEO 3: \$26,725 - \$30,467
To work as one of a group of three administrative assistants with shared responsibilities for reception and processing of international student applications. In addition the position includes support to the Finance Officer for the preparation of requisitions and the checking of invoices for authorisation of payment, and other administrative work as necessary for the working of the office.

You should have

- ability to communicate appropriately in reception
- computer competency with a knowledge of Microsoft Word
- ability to work under pressure and prioritise the workload while maintaining attention to detail
- ability to work effectively as a member of a team
- ability to communicate with people who have varying levels of English language competency.

Knowledge of administrative procedures in a university, an understanding of other cultures and a knowledge of finance procedures in the University is desirable.

This continuing position is available from 18 May 1999. Further details from Julia Segaran tel: 8303 5252.

***APPLICATIONS** to the Director, International Programs, University of Adelaide, Australia 5005 by 7 May 1999.

GENERAL NOTICES

Student Evaluation of Teaching (SET)

The Advisory Centre for University Education (ACUE) provides a service to all University teaching staff who wish to evaluate their teaching. This service is known as Student Evaluation of Teaching (SET).

Staffing wishing to use SET for the first time should contact the Evaluation Service Office, ext 33496/ 33023, for a copy of the package.

The SET package contains a User Manual, appropriate evaluation request forms, and some information concerning applications for promotion and tenure. The service is free of charge and is available to all teaching staff of the University.

Due to high demand for SET questionnaires, and to the fact that the Evaluation Service is currently staffed by one full-time person only, please send your evaluation request forms to the ACUE at least four weeks prior to the planned date of your evaluation.

It is ACUE policy that all requests are placed in a queue determined strictly by date of receipt. Requests which do not allow sufficient lead time may not be processed.

We recognise that occasionally there will be circumstances where a staff member will need to request an evaluation service but cannot give the required minimum notice. In these cases a service will be provided within 5 working days and a priority fee of \$75 charged.

Preferred Supplier Contracts

The web address to the Supply Unit web page containing all the updated Preferred Supplier Contracts is: www.isb.adelaide.edu.au/findoc/stores/tocstore.htm.

Make this address one of your bookmarks so that you can find us easily.

AW ZANKER
Purchasing Manager

Memorial Service: Professor HS Green

A memorial service for the late Professor HS (Bert) Green, Foundation Professor of Mathematical Physics, will be held in the Elder Hall on Thursday 13 May at 2.00pm. Refreshments will be served afterwards. All University staff are welcome to attend.

Please contact Mrs Arlene Shaw on ext 35113 or email: ashaw@physics.adelaide.edu.au if you are able to come.

ASSOCIATION FOR TERTIARY EDUCATION MANAGEMENT (SA BRANCH)

WEBSITE WORKSHOP

4.00pm - 7.00pm, Monday 10 May 1999, Ngapartji Multimedia Centre, 211 Rundle Street, Adelaide

Theme: Using your own and other websites more effectively

Topics: An introduction to websites and intranets for information sharing; How to make better use of your Division/Branch/Faculty website.

Facilitated by an expert multimedia and website consultant from Ngapartji. Followed by refreshments and an opportunity to surf the web to visit highly recommended sites. \$25 for members / \$30 for non-members.

RSVP: With details of your Division/Branch/Faculty website address by Wednesday 5 May to: Cyril Brown, Research Branch, University of Adelaide, tel 8303 3534, fax 8303 3700, email: cyril.brown@adelaide.edu.au. Cheques made out to ATEM (SA Branch) can be sent to Cyril Brown or payment can be made at registration on 10 May.

Changes to the Image and Copy Centre

Following some restructuring within Information Technology Services, management of the Image and Copy Centre on North Terrace has been transferred to the University Library, and the Image and Copy Centre and University Photographic Service at the Waite Campus have been transferred to the Faculty of Agricultural and Natural Resource Sciences.

On both North Terrace and the Waite Campus it is intended that staff and service arrangements will continue as previously, providing continuity of service to University and other clients. Opportunities will be taken to enhance services wherever possible, and the Library and the Faculty of Agricultural and Natural Resource Sciences look forward to the new challenges and opportunities which the change allows.

Year 2000 Project Office Update

One of the Year 2000 Project Office aims was to keep staff informed of the project status. We found the best way of doing this was to publish a comprehensive web page service as part of the Information Technology Services web site. The main page can be found at: <http://www.adelaide.edu.au/ITD/y2k/>. This site has had many updates including the "Countdown Clock", a new section on data scanning and an expansive section on common desktop applications and operating systems.

Common Desktop Applications: This section provides coordinators and individual members of staff with a list of software found throughout the University that is supported by ITS. This gives the current year 2000 compliance status and appropriate information on whether to upgrade or replace common applications: <http://www.adelaide.edu.au/ITD/y2k/Scanning/cda.html>.

Central Scanning Service: From the common desktop application page, you can

use the left hand side navigation links to tour through and learn how to "fix" data files from Y2K problems. One of the new features in the Y2K pages is the "Central Scanning Service". This is a step-by-step guide on how to submit files to the Project Office for scanning with other relevant information on common data types. <http://www.adelaide.edu.au/ITD/y2k/Scanning/>.

Project Update: The details of the current Year 2000 Project are now available on the web. Phase I of the project has now been completed. This involved identifying potential Year 2000 issues and risks for the University and provided cost estimates for rectification. A final Assessment report on this phase is available from the Y2K web pages. The University has now begun implementing Phase II which includes testing of equipment/software, assessing funding applications for testing/upgrading and beginning to make contingency plans for key suppliers and for key items of equipment and software. <http://www.adelaide.edu.au/ITD/y2k/status.html>.

Critical Suppliers: A list of the critical suppliers of the University has been identified. Meetings are being conducted to assess the

progress on Year 2000 remediation. So far meetings with Optus, Telstra and SATAC have been organised and a conference by ETSA has been attended. <http://www.adelaide.edu.au/ITD/y2k/supply.html>.

Local Representatives: The local representatives on the Steering Committee for your division are shown on the web. Your first point of call should be your local coordinator whom you can contact via your local computer officer. <http://www.adelaide.edu.au/ITD/y2k/responsibility.htm>.

Clauses for Contracts: Part of the Phase I of Year 2000 project included information gathering. This was done some time ago and since then many items of equipment have been retired, replaced or upgraded. In order for the Project Office to continually update its database, it is vital for co-ordinators to inform us of any changes made.

For new items of equipment there is a method for ensuring that the product you bought is Year 2000 compliant. A form is now available that you can directly print from the web. This form can be signed by the supplier when purchasing new products. Once completed it

should be forwarded to the Year 2000 Project Office. <http://www.adelaide.edu.au/ITD/y2k/clauses/y2kadv.html>.

Labelling of Equipment: It is very important to identify equipment that has year 2000 issues. The Year 2000 Project Office has commenced labelling equipment with Y2K compliance stickers which have been developed for the three South Australian Universities. It is intended that departments label their own equipment; more information on using and obtaining these labels at: <http://www.adelaide.edu.au/ITD/y2k/Label.html>.

News! An exciting new section on the Y2K web pages is news stories that relate to Year 2000 and are of particular interest to the University. Typical stories include Y2K incidents from around the world, major business plans such as Qantas, news from Asia and other South Australian Universities. <http://www.adelaide.edu.au/ITD/y2k/news.html>.

We hope you make good use of the Y2K Project Office web pages and will be pleased to assist anyone with any problems. For more information, please contact Jesse Grainger, Year 2000 Project Office.

Law Week 1999

The School of Law is holding the following event as part of its contribution to Law Week 1999

A Career in Law — How? What? Where

Wednesday 19 May, 5.30 - 6.30pm, Lecture Theatre 2, Law School

In today's society, the law reaches into almost every corner of our lives, making the study of Law today more challenging - and intellectually adventurous - than it has ever been.

Roles for law graduates are expanding significantly. Those who become lawyers may become involved in court work or may choose to practise as solicitors. Yet, although many graduates enter legal practice, a significant number choose to pursue careers in government, commerce, industry, community organisations or academic institutions. Completion of one of our combined law/non-law degree programs makes our graduates uniquely placed to take up some of the specialist career opportunities offered beyond the law.

And it is this enormous range of options, the opportunities and influence which they afford, that gives a career in law its very distinctive appeal and makes the study of law one of the most popular choices among today's students.

The session will provide information on requirements for entry to law, the study of law and career opportunities following graduation. Speakers: Dr John Williams (Lecturer, Adelaide University); Ms Catherine Gooley (President, Law Students' Society); Mr Mark Griffin (Barrister).

Further details: Linda Lambie, Law School Office, 8303 4020.

Parking is available on campus after 4.30pm, in white-lined areas only, at a cost of \$4.00. Tickets are available from the machine at Gate 22A, North Tce.

RESEARCH BRANCH UPDATE

ARC SMALL GRANTS SCHEME 2000: It is expected that the guidelines and application forms for ARC Small Grants Scheme (SGS) funding in 2000 will be available in mid-May. Applications will close on 16 August 1999.

Information Sessions: The Deputy Vice-Chancellor (Research) [Professor Ross Milbourne] and the SGS panel chairs will present two Information Sessions about the scheme at 1pm on Thursday 20 May (North Terrace) and Friday 21 May (Waite campus), particularly for new staff or first time applicants.

Expressions of interest for appointment to Discipline Panels: Expressions of interest are invited for appointment to the four Discipline Panels for the 2000 funding round of the ARC Small Grants Scheme, applications for which will be invited shortly and will close on Monday 16 August. Discipline Panels are responsible for assessing and ranking applications in their particular disciplinary area. The four Panels are: Biological Sciences; Chemical, Mathematical and Physical Sciences; Engineering, Earth and Applied Sciences; and Humanities and Social Sciences.

Each Panel will normally comprise no more than eight members including, if possible, established researchers with experience in ARC grant scheme procedures and practices, a member of the University Research Committee, and other established researchers. Panel members are appointed by the Deputy Vice-Chancellor (Research) in consultation with the relevant Panel Chair for a term of three years with no more than half the members retiring in any one year.

Those eligible to serve as Panel members are all members of the University who are eligible to apply for grants under the Small Grants Scheme as first-named investigators. Further details concerning eligibility and a form to be used to lodge an expression of interest may be found on the Research Branch web site at <<http://www.adelaide.edu.au/RB/formslist.html>> or can be obtained from the Research Branch, extension 35137. Expressions of interest close on FRIDAY 28 MAY. Members who served on panels in 1998 are not required to submit expressions of interest but staff who unsuccessfully expressed interest in 1998 will need to nominate again. Further details: Cyril Brown, 33534.

ARC INDIGENOUS RESEARCHERS DEVELOPMENT SCHEME: The key objective of this scheme is to develop the research expertise of Indigenous researchers to a level at which they can compete in open competition for mainstream research funding. Applications are accepted only from Indigenous researchers and all Chief Investigators must meet this criterion. However, as the scheme aims to develop the research expertise of successful applicants, it is strongly recommended that a mentor (who does not need to be an Indigenous person) is associated with the proposal to provide specific expert advice on the subject of the research. Application forms and guidelines are available on the Research Branch website and further details from Vada Osborn, 33387. Applications close with the Research Branch on Friday 18 June.

Research Branch web site: <<http://www.adelaide.edu.au/RB/>>.

RESEARCH AND SCHOLARSHIPS AND OTHER FUNDING SCHEMES

Research Grants & Fellowships

The following is a list of grant, fellowship and other research funding schemes currently available for application. A more detailed electronic version of this listing (Update: Research), together with guidelines and application forms for some of the major schemes, are available at: <<http://www.adelaide.edu.au/RB/>>. For hard copy application forms and guidelines please contact the Research Branch, ext 35137; or email <louise.moore@adelaide.edu.au>.

Sponsored Programs Information Network (SPIN): SPIN Australia - A database containing current and comprehensive information on over 2,600 government and private funding opportunities. The SPIN web site is accessible via the Research Branch web site.

Industry, Science & Resources; Dept of (DISR) - Technology Diffusion Program (TDP): This Program has three integrated components: Technology Alliances; Technology Transfer; and Online Business. Further information about the TDP is available from the AusIndustry web site: <<http://www.ausindustry.gov.au/tdp>>. U19/98

Juvenile Diabetes Foundation Australia - 1999 Travel Grants for Young Researchers: Internal closing dates: 6 May, 5 August and 4 November 1999 and 3 February 2000. U7/99

National Health and Medical Research Council - R Douglas Wright Awards for 2000: Internal closing date: 7 May 1999. U6/99

Anti-Cancer Foundation of South Australia - Research Grants-In-Aid 2000: Internal closing date: 13 May 1999. U5/99

Multiple Sclerosis Australia - Project Grants and Postdoctoral Fellowships for 2000: Internal closing date: 14 May 1999. U3/99

Australian Brewers' Foundation - Alcohol-related Medical Research Grant Scheme 1999-2000: Internal closing date: 14 May 1999. U4/99

WorkCover NSW Injury Prevention, Education and Research Grants

Scheme - Applications for Grants 1999: Internal closing date: 14 May 1999. U7/99

National Cancer Institute - Cancer Survivorship Studies in Established Epidemiologic Cohorts: Internal closing date: 18 May 1999. U7/99. Further details are available from: <<http://www.nih.gov/grants/guide/pa-files/PA-98-027.html>>. Grant application form (PHS 398) is available from: <<http://www.nih.gov/grants/forms.htm>>.

National Cancer Institute (USA) - Molecular and Cellular Biology of Metastatic Tumor Cells: Internal closing date: 18 May 1999. U7/99. Further details are available from: <<http://www.nih.gov/grants/guide/pa-files/PA-98-029.html>>. Grant application form (PHS 398) is available from: <<http://www.nih.gov/grants/forms.htm>>.

National Institute of Diabetes/Digestive/Kidney Diseases (NIDDK): Basic Research on the Metabolism of Iron Chelation: Internal closing dates: Letter of Intent (optional) 27 April 1999 Application 18 May 1999. U7/99. Further details are available from: <<http://www.nih.gov/grants/guide/rfa-files/RFA-DK-99-009.html>>. Grant application form (PHS 398) is available from: <<http://www.nih.gov/grants/forms.htm>>.

National Institute of Mental Health - Dissemination Research in Mental Health: Internal closing date: 18 May 1999. U7/99. Further details are available from: <<http://www.nih.gov/grants/guide/pa-files/PA-99-068.html>>. Grant application form (PHS 398) is available from: <<http://www.nih.gov/grants/forms.htm>>.

National Council for the Centenary of Federation - History and Education Program - Round 2: Internal closing date: 21 May 1999. U6/99

Violence Prevention Awards Secretariat, c/o Australian Institute of Criminology: Australian Violence Prevention Awards 1999: Internal closing date: 21 May 1999. U5/99. Web site: <<http://www.aic.gov.au>>.

Heart Foundation

- Career Research Fellowship
- Clinical and Overseas Research Fellowships
- Postdoctoral Research Fellowships
- Senior Research Fellowship in

Nutrition

• Warren McDonald International Fellowship

Internal closing date: 24 May 1999. U4/99

Australian Spinal Research Foundation - Research Grants: Internal closing date: 24 May 1999. U8/99

Natural Heritage Trust: Coasts & Clean Seas - Funding for Environmental Projects for 1999-2000: Internal closing date: 25 May 1999. U4/99. Web site: <http://www.environment.gov.au/marine/clean_seas/info.html>.

Juvenile Diabetes Foundation Australia - Innovative Grants: Internal closing dates: 1 June, 1 September and 1 December 1999 and 1 March 2000 (Copy of first two pages of application) 17 June & 17 September and 17 December 1999 and 17 March 2000 (Completed full applications). U7/99

National Institute of Dental and Craniofacial Research - Collaborative Oral Health Research Planning Grant: Internal closing date: 2 June 1999. U7/99. Further details are available from: <<http://www.nih.gov/grants/guide/rfa-files/RFA-DE-99-002.html>>. Grant application form (PHS 398) is available from: <<http://www.nih.gov/grants/forms.htm>>.

Criminology Research Council - Research Grants: Internal closing dates: 11 June & 8 October 1999. U1/99

AZA Research - 2000 Research Grant Programme: Internal closing date: 11 June 1999. U8/99

Scholarships

Unless otherwise stated, further information and application forms for the following scholarships are available from the Registrar, Scholarships, or the Scholarships Officer, Graduate Studies and Scholarships Branch, Level 7, Wills Building, ext 35697/33044. Please lodge all applications with the Scholarships Office unless otherwise stated.

Hosei University Foreign Scholars Programme: Tenable for 6-12 months, to holders of a Masters or equivalent. Fields of study include humanities, social or natural sciences, engineering. Closing: 31 May (Japan)

Menzies Research Scholarship in the Allied Health Sciences: Tenable in Australia to full-time PhD students undertaking research in one of the allied health sciences. Available for two years to students who have completed the first stage of their program. Value: \$24,000pa. Closing: 23 June (Scholarships)

Monbusho Scholarships to Japan: Available at undergraduate and postgraduate level. Details available on request, however, applications only available from the Japanese Embassy (02) 6273 3244. Closing: 24 June (Canberra)

Multiple Sclerosis Australia - Postgraduate Research and Summer Vacation Scholarships: Postgraduate scholarships open to registered medical graduates or appropriately qualified science graduates or health professionals. Vacation scholarships intended for currently enrolled undergraduates completing 3 or 4 years of a full-time course leading to an honours degree in medicine, health science or science. Applications for vacation scholarships may be sent directly to the funding body by 31 August 1999. Closing: 23 August-Postgraduate Scholarships (Scholarships)

Russian Scholarships: Available for full-time study and for postgraduate study at a Russian university. Value: RUR83,49 per month (undergraduate), RUR417,45 per month (postgraduate). Closing: 15 May (Russia)

Sir Edward 'Weary' Dunlop Asian Fellowships: Open to Australian citizens to undertake individually devised projects in an Asian country, in such fields as social service, local community development, peace-keeping, public health/welfare, technology, environment/resource management, arts/culture, sport. Closing: 30 August (Victoria)

Turkish Government Scholarships 1999: Higher Education Scholarships open to year 12 graduates who would like to study in Turkish universities, and Summer Courses available to university or higher educational institute graduates wishing to attend Turkish Language and Culture Summer Courses. Details from the Embassy of the Republic of Turkey, 60 Mugga Way, Red Hill, ACT, 2603, ph: (02) 6295 0227; fax: (02) 6239 6592. Closing: 15 May (Summer courses); 15 July (Higher Education Scholarships)